General Catalog of

TANGIBLE APPARATUS

1961

ALL PRICES IN THIS CATALOG ARE SUBJECT TO CHANGE WITHOUT NOTICE

AMERICAN PRINTING HOUSE FOR THE BLIND
1839 Frankfort Avenue
Louisville, Ky.

General List of Tangible Apparatus

Note: Special descriptive brochures are included in this folder which give complete information on those items of tangible apparatus marked with an asterisk (*).

KINDERGARTEN

	Price	U. S. Postage
***Braille Clockface** (to teach reading time). (7⅜" diameter x 1"; metal face, with movable hands with gears without motor or other driving mechanism; mounted in round black plastic frame 7" in diameter x 1" thick; 12 numbers for hours embossed on inside rim of plastic case next to metal face in both Braille and ¾" high Arabic numerals) ..... **Each**	$ 2.50 +	$0.07
***Braille Clockface Sheets** (blank, circular clockfaces, containing numbers of hours in Braille but no hands; embossed 4 to page on 11" x 11½ manila sheets):		
Package of 5 ..... **Postpaid**	.20	
Package of 100 ..... **Postpaid**	3.10	
***Constructo Set No. 1** (Wooden Constructo Set consisting of 101 pieces of hard wood and wooden bolts to be used as an erector set). (Packed in wooden storage box) ..... **Sold in complete sets only**	42.00 +	.75
***Peg Board with Pegs (New Style):**		
***Semi-rigid Vinyl Type Frame (See APH Cubarithm Arithmetic Slate below)** ..... **Frame only**	2.00 +	.12
***Plastic Pegs** (5/16" x 5/16" x ⅞"; hard blue vinyl plastic) ..... **Per 150**	1.50 +	.11
Squares of Cardboard Perforated for Sewing ..... **Each**	.03 +	.01
Squares of Cardboard Lined Off in Inch Squares for Parquetry Paper Work ..... **Each**	.03 +	.01

MATHEMATICS

***Arithmetic Type Slates:**		
***A.P.H. Cubarithm Arithmetic Slate with Type:**		
***Semi-rigid Vinyl Type Frame** (employing Braille cubes; can also be used with 24-point Copperplate Gothic Type, and as a peg board with plastic pegs). (8½" x 7"; 16 x 16 cells, ⅝" x ⅝"; red color ..... **Frame only**	2.00 +	.12
***Braille Type Cubes** (minimum type for each frame, 150 cubes). Cubes 5/16" x 5/16" x 5/16"; hard yellow vinyl plastic ..... **Per set**	2.50 +	.11
***24-point Copperplate Gothic Type** (minimum type for each frame, 15 sets each Arabic numerals from 1 to 9 and 0—150 type, 5/16" x 5/16" x ⅞"; hard yellow vinyl plastic) ..... **Per set**	2.50 +	.11
***Brannan Cubarithm Arithmetic Slate with Cubes:**		
***Rigid Phenolic Type Frame** (employing Braille cubes). (8¾" x 9"; 16 x 16 cells, ½" x ½"; black color) ... **Frame only**	1.50 +	.12
***Brannan Braille Type Cubes** (minimum set of cubes for each frame, 100 cubes). Cubes ⅜" x ⅜" x ⅜"; hard black phenolic plastic) ..... **Per set**	2.00 +	.11
***Taylor Arithmetic Type Slate with Type:**		
***Taylor Slate** (bright green aluminum; 12" x 7½" x ⅝"; 24 x 18 cells—six sided) ..... **Frame only**	5.50 +	.11
***Taylor Arithmetic Type** (minimum type for each frame, 225 pieces, 3/16" x 3/16" x 11/16"):		
Hard yellow vinyl plastic type ..... **Per set**	3.00 +	.12
Lead metal type ..... **Per set**	4.00 +	.12

MATHEMATICS

	Price	U. S. Postage
***Texas Arithmetic Type Slate with Type:**		
***Texas Slate** (natural colored wood; 8½" x 12⅜" x 1"; 20 x 30 cells, 5/16" x 5/16") ..... **Frame only**	7.50 +	.12
***Philadelphia Great Primer Type** (minimum type for each frame, 15 sets each Arabic numerals from 1 to 9 and 0—150 type, 7/32" x 7/32" x ⅝"; lead type ..... **Per set**	4.50 +	.12
Graph Sheets (9" x 12"; 16 squares x 22 squares, each square ½"; printed on white Braille paper) ..... **Per 100**	1.50 +	.12
***Graphic Aid for Mathematics** (for the construction of mathematical figures and graphs). (Board 18" x 19" x 1", accompanied by a set of 3 flat spring wires, 14 plastic-headed push-pins and a supply of rubber bands) ..... **Sold in complete sets only**	12.50 +	.15
***Hoff Aid** (upward-writing slate, with stylus, designed primarily for use in making mathematical calculations on paper). (Slate, 9¼" x 2⅛" x 1"; hinged metal line index paperfeed, 9¼" x ½"; stylus, regulation size. Slate provides for 16 Braille lines, 30 cells to line, with maximum paper size of 8½" x 9½") ..... **Sold in complete sets only**	22.50 +	.16
***Kine Mltply Vizr** (designed for teaching multiplication tables, squares and cubes through No. 12). (11" x 11")	2.00 +	.12
***Mitchell Wire Forms with Matched Planes and Volumes** (set of 15 solids, 11 planes, and 24 wire frames designed to illustrate the volumes, planes and outline forms commonly found in geometric problems, with corresponding figures in all three forms built to the same scale—cube is 3" x 3" x 3"). (Volumes made of hard wood, brightly painted in colors corresponding to those of their respective planes; wire outlines fabricated from ⅛" cadium-plated steel wire) ..... **Sold in complete sets only**	35.00 +	.47
***Moulded Plastic 1-foot Braille Ruler** (moulded of black phenolic plastic, showing ⅛", ¼", ½" and 1") ..... **Postpaid**	.50	
***Raised-line Check Book** (7-1/4" x 2-5/8" x 5/16", with green plastic cover, wire binding for easy detachment of checks; printed in raised lines on regular check book paper; interleaved with plain white Braille paper to provide space for record-keeping of individual checks in Braille) ..... **Postpaid**	.40	

MUSIC

***Beetz Notation-Graph** (cloth-covered cork board, 19½" x 14½", showing model of ink-print grand staff with 125 removable characters) ..... **Complete with Carrying Case**	75.00 +	.40
***Music Rack for Partially Visioned** (designed to fit any upright piano, adjustable as to height, forward and back position and tilt, so that ink-print music can be placed at the correct eye level and focal vision point of the user) **Plus parcel post and insurance on 5 lbs. additional** ..... **Each**	5.50	

WRITING DEVICES

***Braille Slates** (.090" x .090" x .250" x .400" spacing). **One stylus is included with each slate:**		
***Correcting Slate,** 4 line, 37 cell (made of nickel alloy)	2.10 +	.11
***Desk Slate** (**large** size), 4 line, 37 cell (made of nickel alloy)	4.10 +	.13
***Desk Slate** (**small** size), 4 line, 27 cell (made of nickel alloy)	3.25 +	.12
***Pocket Slate,** 4 line, 28 cell (made of aluminum in various colors or nickel alloy)	2.00 +	.11

MATHEMATICS

	Price	U. S. Postage
***Texas Arithmetic Type Slate with Type:**		
***Texas Slate** (natural colored wood; 8½" x 12⅜" x 1"; 20 x 30 cells, 5/16" x 5/16") . . . . . **Frame only**	7.50 +	.12
***Philadelphia Great Primer Type** (minimum type for each frame, 15 sets each Arabic numerals from 1 to 9 and 0—150 type, 7/32" x 7/32" x ⅝"; lead type . . . . . **Per set**	4.50 +	.12
Graph Sheets (9" x 12"; 16 squares x 22 squares, each square ½"; printed on white Braille paper) . . . . . **Per 100**	1.50 +	.12
***Graphic Aid for Mathematics** (for the construction of mathematical figures and graphs). (Board 18" x 19" x 1", accompanied by a set of 3 flat spring wires, 14 plastic-headed push-pins and a supply of rubber bands) . . . . . **Sold in complete sets only**	12.50 +	.15
***Hoff Aid** (upward-writing slate, with stylus, designed primarily for use in making mathematical calculations on paper). (Slate, 9¼" x 2⅛" x 1"; hinged metal line index paperfeed, 9¼" x ½"; stylus, regulation size. Slate provides for 16 Braille lines, 30 cells to line, with maximum paper size of 8½" x 9½") . . . . . **Sold in complete sets only**	22.50 +	.16
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***Moulded Plastic 1-foot Braille Ruler** (moulded of black phenolic plastic, showing ⅛", ¼", ½" and 1") . . . . . **Postpaid**	.50	
***Raised-line Check Book** (7-1/4" x 2-5/8" x 5/16", with green plastic cover, wire binding for easy detachment of checks; printed in raised lines on regular check book paper; interleaved with plain white Braille paper to provide space for record-keeping of individual checks in Braille) . . . . . **Postpaid**	.40	

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***Beetz Notation-Graph** (cloth-covered cork board, 19½" x 14½", showing model of ink-print grand staff with 125 removable characters) . . . . . **Complete with Carrying Case**	75.00 +	.40
***Music Rack for Partially Visioned** (designed to fit any upright piano, adjustable as to height, forward and back position and tilt, so that ink-print music can be placed at the correct eye level and focal vision point of the user) **Plus parcel post and insurance on 5 lbs. additional** . . . . . **Each**	5.50	

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***Desk Slate** (**large** size), 4 line, 37 cell (made of nickel alloy)	4.10 +	.13
***Desk Slate** (**small** size), 4 line, 27 cell (made of nickel alloy)	3.25 +	.12
***Pocket Slate**, 4 line, 28 cell (made of aluminum in various colors or nickel alloy)	2.00 +	.11

WRITING DEVICES

	Price	U. S. Postage
***Brown Slate,** 4 line, 28 cell (made of brown aluminum; a refinement of regulation pocket slate to which has been added an extra frame to hold the pins for mounting paper to make possible dropping open the bottom part of guide in order to read what has been written without taking paper out of slate itself)	2.80 +	.11
***Postcard Slate,** 4 line, 19 cell (made of dark blue aluminum)	1.65 +	.11
***Erasers** (hard maple, natural finish, 2½" long, with handle knob same size and shape of large stylus handle, rounded tip):		
Each .....**Postpaid**	.10	
Per dozen .....**Postpaid**	1.00	
***New Hall Braillewriter** (machine 17" x 10" x 5½" over-all size, weight 18¼ lbs.; maximum page 11½" wide, permitting the writing of 25 lines, 41 cells, on a 11" page; carrying case furnished with each machine)	65.00 +	.60
***Perkins Braillers** (machine 15½" x 9" x 5¾" over-all in size, weighing 10 lbs.; maximum page size 11½" wide x 14" long, permitting the writing of 25 lines, 41 cells on a 11" page; dust cover furnished with each machine.....	90.00 +	.47
Script Letter Sheets (raised). Embossed on white Braille paper.....**Each**	.03 +	.01
***Styli** (one stylus is included with each slate; 2 sizes of handles, regular for adults and small for young children) .....**Each**	.12 +	.01
.....**Per Dozen**	1.25 +	.11

SPELLING

***Spelling Frames with Words:**		
***Frame** (magnesium, 5" x 9", 5 lines) .....**Each**	1.00 +	.11
***Words** (taken from "Unit Card Set" to accompany "Basic Reading Series"). 158 words per set, Braille grade 2.....**Per Set**	1.00 +	.11

PAPER

***Transcribing Braille Paper** (100 lb. manila, 11" x 11½" only). Packaged in ream lots of 500 sheets, although can be supplied in any multiple of 500 sheets. **Not available on quota accounts. . Per ream, postpaid**	3.00	
***Plain Braille Paper** (standard weight, brown magazine paper, cut in sizes 8" x 12", 9" x 12", 10" x 12", and 11" x 11" only). Packaged in units of 4 pounds although can be supplied in any multiple of 4 pounds. **Not available on quota accounts.** (45-55 sheets comprise one pound, depending on paper size) **Per package, including postage**	1.00	
***Braille Notebooks with Punched Braille Paper Fillers:**		
***Braille Notebooks** (to fit standard Braille paper sizes noted below; 3 rings each 1½" diameter; heavy imitation leather covered board covers). Any size.....**Each**	2.00 +	.14
***Punched Braille Paper Fillers** (standard weight, brown magazine paper, cut in sizes 8" x 12", 9" x 12", 10" x 12", and 11" x 11"; punched with 3 holes in left-hand margin to fit notebook covers). Packaged in units of 3 pounds, approximately 45-55 sheets per pound, depending on paper size..... .....**Per package, including postage**	1.00	
***Embossed Pencil-writing Paper** (white Braille paper, embossed with heavy guide lines ½ apart, padded, sheets 10¼" x 8¾") ....**Per 165 sheets, including postage**	1.00	
***Large-type Writing Paper** (buff-colored paper, printed with heavy green either long or short way of paper. (Approximately 60 sheets to a pound).....**Postage additional as below. Per lb.**	.35	

Zones	1	2	3	4	5	6	7	8
Postage	.27	.27	.29	.31	.36	.40	.46	.51

MISCELLANEOUS

	Price	U. S. Postage
Gore Reading Stand—Designed for use by partially visioned children or adults to hold a book or other reading material in a comfortable position for easy reading. (Four-jointed, with one arm permissible of extension from 6½" to 12"; clamp for attaching to table or desk; music-stand type bookrack. **Plus parcel post and insurance on 5 lbs. additional.** . . . . . **Each**	20.00	

GLOBES, PLAQUES, MAPS

(Shipping costs always in addition to prices quoted unless noted; shipment to be made either by freight or express)

	Price	U. S. Postage
***Relief Globes and Plaques:**		
***Floor Pedestral Globe** (30" in diameter, over-all height of 51"; hollow-plastic construction painted in contrasting blue and yellow to highlight sea and land areas, with brown stippling for mountainous areas; raised latitude and longitude lines; mounted on sturdy metal base which provides for easy revolving on a correctly-angled axis) . . . . . **Shipping charges additional**	225.00	
***Table-Model Globes:**		
***Panoramic Model Globe** (12" in diameter; lightweight, hollow-plastic construction painted in contrasting blue and yellow to highlight sea and land areas, with brown stippling for mountainous areas; full relief, plus raised latitude and longitude lines, with indented line for Equator; elevation exaggerated 32 to 1 in comparison with horizontal distances; separate aluminum cup-shaped base) . . **Postpaid**	11.50	
***Geo-Physical Model Globe** (12" in diameter; lightweight, hollow-plastic construction painted in contrasting blue and yellow to highlight sea and land areas, with brown stippling for mountainous areas; full relief, plus raised latitude and longitude lines, with thin lip at Equator ½" wide; elevations exaggerated 50 to 1 in comparison with horizontal distances; separate metal tripod base) . . . . . **Postpaid**	14.50	
***Plaques** (thin plastic film reproductions of large floor globe; 7 separate plaques, including North America, South America, Europe, Africa, Asia, Australia and the East Indies, and the North Arctic Regions) . . . . . **Each**	5.75 +	.16
***Plaque or Globe Kits** (thin, plastic Braille strips giving names of major oceans; gummed on back for sticking to globe or plaque, ... **Per set**	.50 +	.01
***Maps:**		
***Desk Maps of the United States:**		
***Plastic, Undissected, Relief** (21½" x 15¾"; vacuum-formed rubber-modified styrene; full relief; elevations exaggerated 20 to 1 in comparison with horizontal distances):		
Unpainted white . . . . . **Postpaid, each**	2.50	
Painted in contrasting colors, blue for water areas, yellow for land surfaces, light brown stippling of mountainous elevations . . . . . **Postpaid, each**	3.50	
***Braille Outline** (20½" x 13¾"; printed on white Braille paper; simple outline map showing only borders of the U. S. and individual states) . . . . . **Postpaid, package of 10**	.80	
***Large Type Outline** (20½" x 13¾"; printed in black ink on regular buff antique-finish paper; simple outline map showing only borders of the U. S. and individual states) . . . . . **Plus parcel post on 2 lbs., package of 10**	.80	

GLOBES, PLAQUES, MAPS

	Price	U. S. Postage
***Storage Folders** (22" x 16" x 5/8"; heavy cardboard, hinged with imitation leather cloth, reinforced corners) ..... **Postpaid, each**	1.40	
***Hard-rubber, Molded, Dissected, Relief Map—United States (only)**; (similar to wooden relief map with latitude and longitude lines with Braille identifications in margins; 19¼" x 31¼")	135.00	
***Dissected Wooden Relief Maps** (states or countries enameled in various colors; large cities and capitals indicated by different kinds of nail heads):		
Africa—(38" x 47")	330.00	
Asia—(42" x 47")	330.00	
Australia and the Phillippines (37½" x 37½")	240.00	
Europe—(36" x 42")	270.00	
North America—(38" x 47")	330.00	
South America—(38' x 51")	270.00	
United States—(28" x 48") (plastic model only)	280.00	
***Dissected Wooden Maps** (no relief; solid colors). (These maps are suggested for use as puzzle maps for recreation and general use):		
Africa—(38" x 47")	155.00	
Asia—(42" x 47")	180.00	
Europe—(38" x 47")	180.00	
North America—(38" x 47")	155.00	
South America—(38" x 51")	155.00	
United States—(30" x 48")	155.00	
***Easels** (for holding dissected maps in upright position). (Of heavy wooden construction; specify map with which they are to be used when ordering, to obtain proper size)	25.00	

For **special wooden dissected state maps,** write to the American Printing House for the Blind for further information.

TALKING BOOKS

Albums (designed to fit standard 12" Talking Book records only). **Shipping charges in all cases are additional:**

4-record album	$1.10	9-record album	$1.45
5-record album	1.15	10-record album	1.50
6-record album	1.20	11-record album	1.55
7-record album	1.30	12-record album	1.60
8-record album	1.35	13-record album	1.65

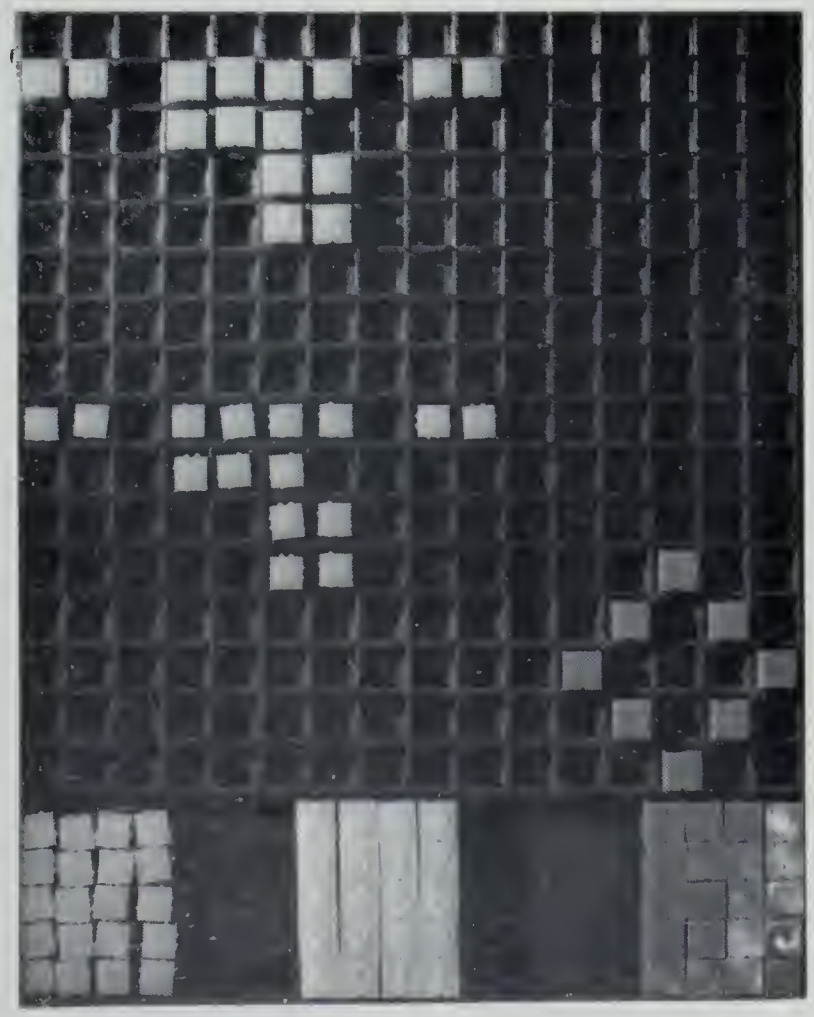
Containers (Standard black fibreboard containers to fit regulation Talking Book records):

Circulation Container (fitted with straps, windows, padding, mailing legend, etc. **Shipping charges additional**	**Per container**	2.00
Storage Containers (no hardware, straps, etc.) **Shipping charges additional**	**Per container**	1.20
Special (other than regulation size)	**Per container**	2.35

***Reproducers—Model L-X** (electrically-driven reproducer, geared for 2 speeds—16-2/3 and 33-1/3 r.p.m.; dual sapphire needle cartridge which will play both old type wide-groove records and new micro-groove records; table model; speaker located in removable cover). **Shipping charges additional, express only** 60.00

Earphones (write for information on style and price).

A. P. H.
Cubarithm or Arabic Numeral Arithmetic Type Slate and Kindergarten Peg Board



Manufactured by

The American Printing House For The Blind

1839 Frankfort Avenue

Louisville 6, Kentucky

This device consists of a plastic type frame, with which can be used either plastic Braille cubarithm cubes or 24-point plastic Gothic numeral type (for arithmetical calculations), or square, plastic pegs (as a kindergarten pegboard).

The frame itself is molded from semi-rigid red vinyl plastic, and is 8½"x7". There are 256 cells in the frame (16x16), each cell being 5/16" by 5/16" square, and a tray at one end for holding the type when the frame is in use. The purpose of making the frame from semi-rigid vinyl plastic is to reduce the noise when working with the type.

To use the device as an *arithmetic slate,* either of two kinds of type can be employed:

Braille Cubarithm Cubes — Made of hard yellow vinyl plastic, 5/16"x5/16"x 5/16 in size. Each type is identical to the others, and contains the Braille digits from 1 to 9 and 0 on five of the faces when properly positioned, plus one blank side which can be used for various other purposes.

24-Point Gothic Arabic Numerals — Made of hard yellow vinyl plastic, 5/16 x5/16"x7/16". The set consists of 15 each of the digits from 1 to 9 and 0. In addition to being used in mathematical calculations, this set of type is useful for teaching the shape of ink-print numerals to blind children.

To use the device as a *kindergarten pegboard,* square pegs made of hard blue vinyl plastic are employed, each peg being 5/16 x5/16"x7/16" in size.

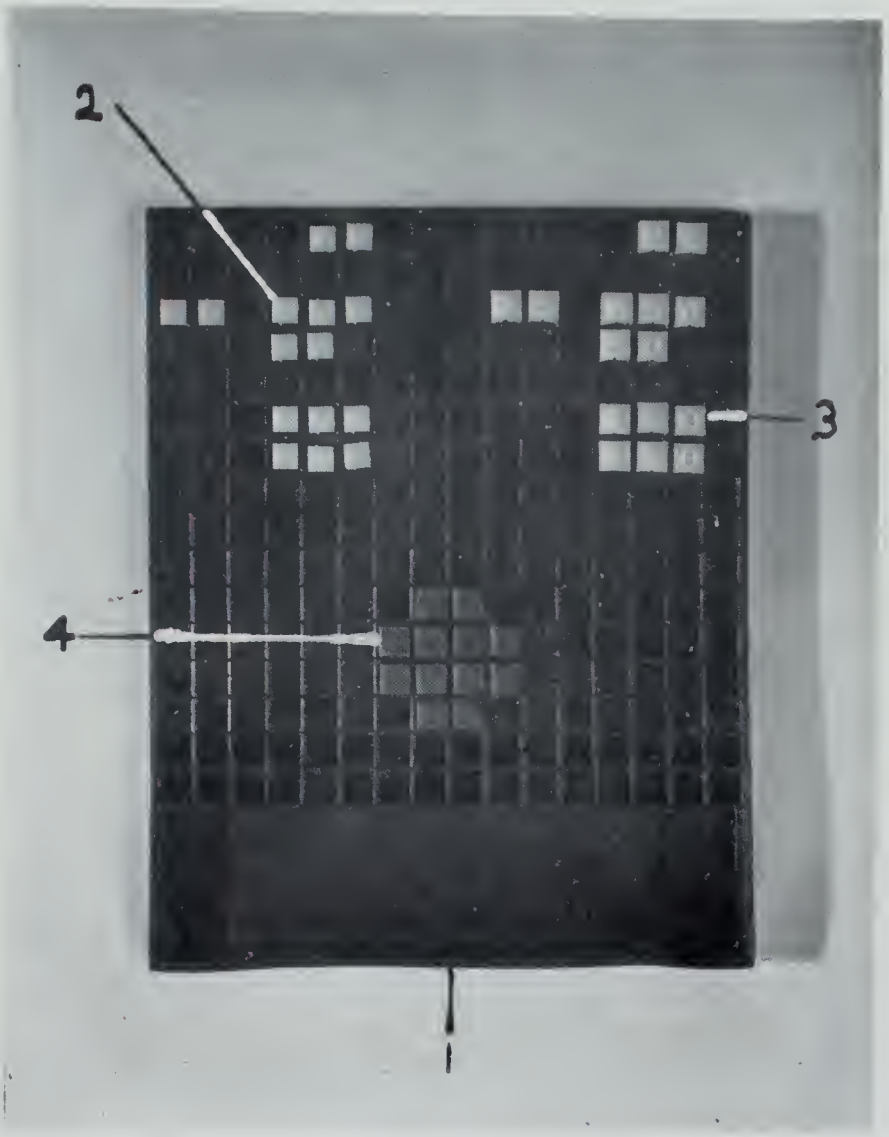
The frame and three sets of type can be purchased separately or in combination, priced as follows, postpaid in the United States:

Frame—$2.12.

Braille cubarithm cubes (set of 150)—$2.61.

Arabic numerals (set of 150—15 of each digit 1 to 9, plus 0)—$2.61.

Kindergarten pegs (set of 150)—$1.61.



1. Red semi-rigid vinyl frame with square holes.
2. Braille cubarithm Cubes—made of hard yellow vinyl plastic.
3. 24-point gothic Arabic numerals—made of hard yellow vinyl plastic.
4. Kindergarten pegs—made of hard blue vinyl plastic.

APH Talking Book Reproducer Model LX

Manufactured by

The American Printing House For The Blind

1839 Frankfort Avenue

Louisville 6, Kentucky

The APH Model LX Talking Book Reproducer is a two speed machine which will play 33-1/3 and 16-2/3 r.p.m. The machine is a portable model weighing 23 pounds (25 pounds packed for shipment). The wooden frame is covered with imitation leather. The speaker is mounted in the cover which is detachable from the bottom with a sufficient length of cord so that it can be placed as much as 8 feet away from the machine.

This reproducer is equipped with a Model 85D1 Astatic turnover ceramic cartridge with dual sapphire microgroove needles. The needles are permanently mounted to the cartridge insert. When one needle becomes worn or damaged a new needle may be brought into position by flipping the needle-change lever to the opposite side. When the second needle becomes worn or damaged, a new cartridge insert may be ordered from the American Printing House for the Blind. The needle change lever is located on either side of the pick-up arm at the location of the cartridge. With moderate care and usage, these needles should last for several years. We would suggest that at the time one needle becomes worn or damaged, a new insert be ordered to keep on hand.

The Model LX is designed to operate on 110-120 volts, 60 cycles, AC current only. The power consumption is 70 watts. A fuse receptacle is located on the motorboard. If replacement of the fuse should be necessary, use only a 3AG-1 amp., 250 volt fuse. One spare fuse is supplied with each new machine, to be found in the open receptacle on the motorboard when the machine is shipped.

There are three controls. The knob on the left is the tone control. To increase the treble (high frequencies), turn the control clockwise. To increase the bass (low frequencies), turn the control counter-clockwise. This control also turns the turntable motor on and off.

The right-hand knob is the volume control. To increase the volume, turn the control in a clockwise manner. This knob also turns off the power when turned to the maximum counter-clockwise position. The power should always be turned off when the reproducer is not in use.

A lever for setting the turntable speed is located to the left of the turntable. Speeds of 33-1/3, 16-2/3 r.p.m., and off are available. When not in use, the lever should always be left in the "*off*" position.

A jack for inserting the speaker plug is provided on the motorboard at the rear right-hand side. Headphones may be substituted for the speaker. The headphones must be equipped with a plug (Mallory Catalog No. 75 or equivalent).

Earphones for use with this machine should be purchased from APH — price $3.00 plus postage.

All Model LX machines can be used in the tropics, semi-tropics, or locations where high heat and humidity are encountered, as well as in normal climates. This reproducer is not, however, designed to reproduce Soundscriber records, although it may be possible to play some records of this type on this machine.

Price — $60.00, plus insurance and express on 25 pounds from Louisville to destination.

Beetz Notation-Graph

Manufactured by

The American Printing House For The Blind

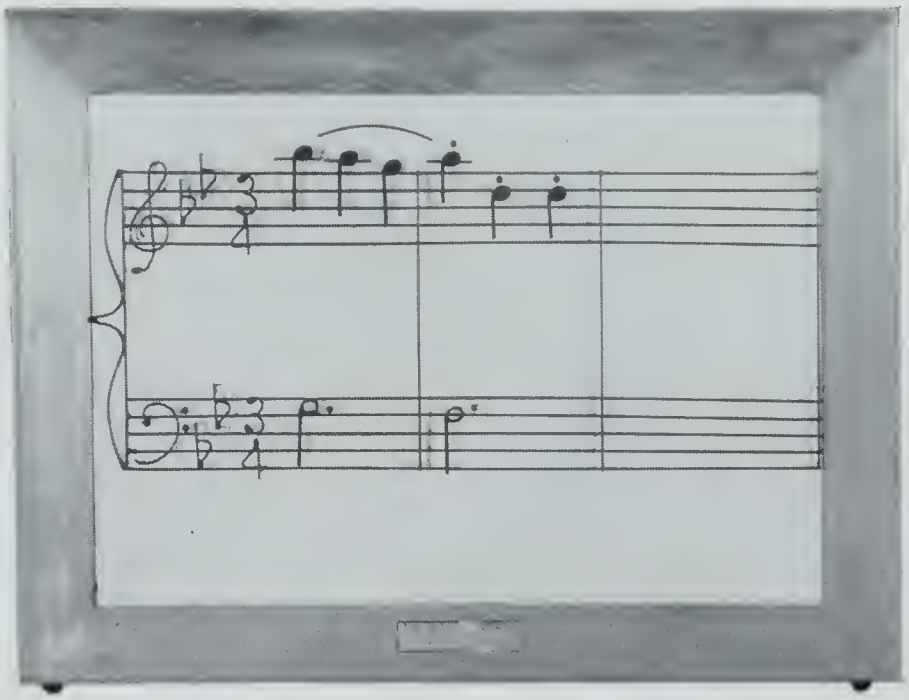
1839 Frankfort Avenue

Louisville 6, Kentucky

The Beetz Notation-Graph is a model of the ink-print Grand Staff, mounted on a cloth-covered cork base, set in a wooden frame 19½″ x 14½″. The various musical symbols can be mounted on the Graph at will, thus making it possible for the blind to express musical phrases in the notation used by the seeing. The device is designed, not only to familiarize the blind with ink-print music notation, but also to enable the blind teacher of music to teach the reading of music to seeing pupils.

The staff consists of ten lines, the treble and bass clefs, and a brace (see picture), all of which may be removed from the board when necessary, but which should be considered permanent. A lot of 129 characters completes the set. Each character is provided with two pins, so that it may be fastened and removed at will. The complete set of characters consists of:

4 whole notes
2 half notes with short stems
2 half notes with medium stems
2 half notes with long stems
8 quarter notes with short stems
4 quarter notes with medium stems
4 quarter notes with long stems
6 quarter heads } used in forming chords
6 half heads } used in forming chords
2 eighth notes with upward stems
2 eighth notes with downward stems
4 sixteenth notes with upward stems
4 sixteenth notes with downward stems
2 coupling lines ¾″ long } used to join two notes for the purpose of converting them into eighth or sixteenth notes
2 coupling lines 1¼″ long } used to join two notes for the purpose of converting them into eighth or sixteenth notes
2 coupling lines 3½″ long, used to join four or six notes
6 leger lines
1 short trill (mordant), ¾″ long
1 short arpeggio, 2″ long
1 long arpeggio (hand-to-hand), 6½″ long
2 crescendos
4 whole or half rests
4 quarter rests
4 eighth rests
2 sixteenth rests
2 four-quarter (common time sign)
2 each of the numbers 1, 3, 5, 6, 7, 8, 9



4 each of the numbers 2 and 4
3 bars
6 dots (used for dotted notes, staccato sign, and double bar repeat)
4 sharps
4 flats
2 naturals
2 double sharps
2 accent signs
2 grace notes
2 tenuto staccatos (consisting of a ½ rest and a dot — separate parts)
4 short tie or couplet slurs, 1⅜″ long
2 medium slurs, 2½″ long
2 long slurs, 5″ long
1 turn
2 pauses (consisting of a curve and a dot — separate parts)
1 square measure (wooden), used to guide the operator in setting the characters
1 leger line gauge (wooden), used to measure the distance in placing the leger lines

Additional duplicates of the characters are available at additional cost.

The Graph board is provided with a cloth-covered carrying case, which also contains a rubber pad mounted in the cover for holding the characters when not in use. The square measure and the leger line gauge are fitted into the cover at the left. A slot for holding a Braille pocket slate is also provided in the cover.

Price — $75.40, postpaid in the United States.

Invented by Charles J. Beetz, Director of Music, New York Association for the Blind (The Lighthouse), New York, New York.

BRAILLE ERASER

Erasers—made of hard maple, natural finish, 2½″ long, with handle knob same size and shape of large stylus handle, rounded tip. —10c each, or $1.00 per dozen, postpaid.

Manufactured by

The American Printing House For The Blind

1839 Frankfort Avenue

Louisville 6, Kentucky

Braille Slates and Styluses

Manufactured by

The American Printing House For The Blind

1839 Frankfort Avenue

Louisville 6, Kentucky

DESCRIPTION

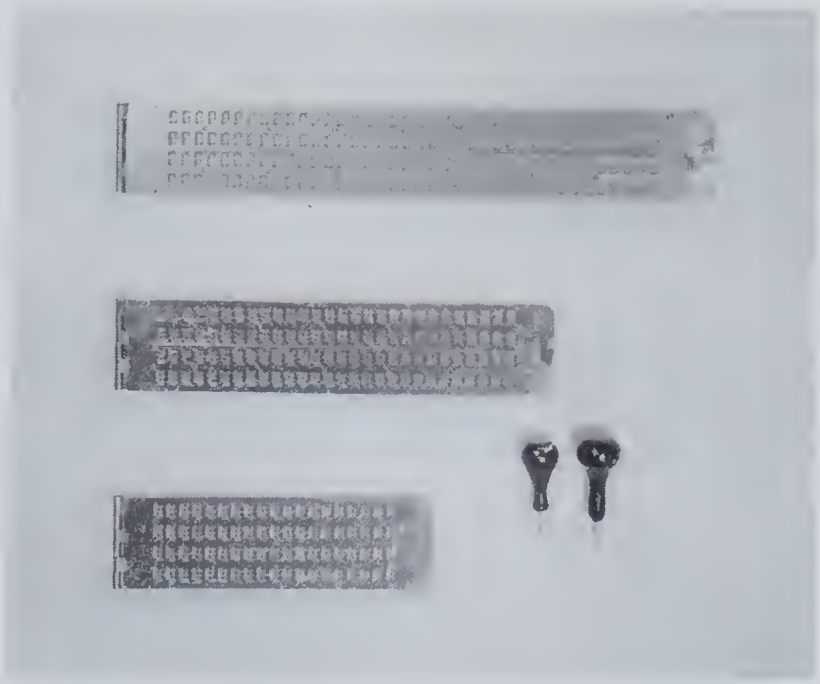
The Braille slate and stylus is the traditional device for writing Braille by hand. All slates consist of a metal frame (or guide), which may or may not be designed to be mounted on a solid board, and a pointed steel punch with a handle called a stylus. Each guide consists of two parts connected at the left end by a hinge. The face of the bottom of the guide is pitted with four lines of a series of six small, round depressions corresponding to the shape and spacing of the dots of the Braille cell. In order to guide the stylus in punching the dots, the top of the frame is punched with four lines of holes which outline the individual Braille cells and correspond to the arrangement of the pits in the bottom of the guide. To write on a slate, paper is inserted between the top and bottom of the guide, being held in place by small pins, and the Braille dots are punched downward into the paper, thus making it necessary to write from right to left in order that, when the paper is turned over in position for reading, the Braille characters can be read from left to right.

All slates manufactured at the American Printing House for the Blind employ standard American Braille spacing—.090″ between adjacent dots within a cell vertically and horizontally; .250″ between horizontally adjacent dots of two adjacent cells with the same Braille line; and .400″ between vertically adjacent dots of two vertically adjacent cells of two adjacent Braille lines. While the number of cells per line may vary with slates of different lengths, all slates manufactured by the Printing House

allow for four Braille lines of writing before the paper or guide must be moved to permit further writing. The same stylus may be used with all slates, although they are supplied with two different sizes of handles—the standard size for adults and smaller ones for young children.

There are two styles of slates—the simple guide; and the board or desk slate which has not only a guide, but a thick board to provide a flat writing surface. Both styles come in more than one guide length, i.e., number of cells per line. The simple guide without the board may be obtained in three lengths—the correcting slate of 4 lines of 37 cells each, the pocket slate of 4 lines of 28 cells each, and the postcard slate of 4 lines of 19 cells each. The desk slate may be obtained in only two lengths—the large board slate with a guide 37 cells in length, and the small board slate with a guide 27 cells in length.

The two styles of slates differ somewhat in design and manner of use. The three simple types of slates—correcting, pocket and postcard—consist only of the hinged guide, on the face of the bottom part of which are four pins which hold the paper in place. As each four lines of writing are completed, the top of the guide is opened back, the paper is lifted upward so that the two holes punched in it at either side by the two bottom pins on the guide are remounted over the two pins at either end of the top of the guide, and two new holes are punched to correspond with the bottom pins, and the top of the guide is then



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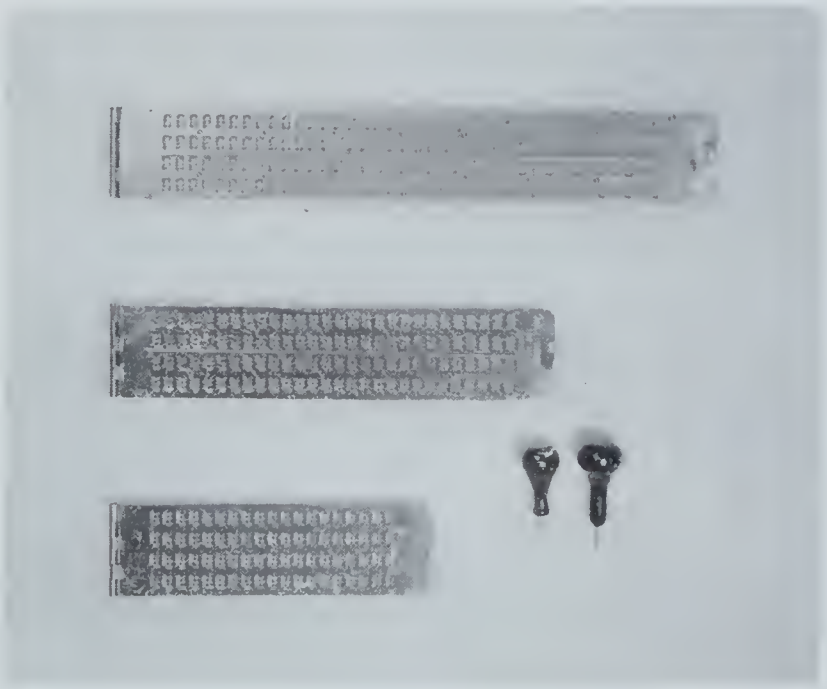


again closed ready for writing. Thus, the paper can be successively moved from pins to pins so as to keep the line-spacing true down its entire length. The advantage of this slate lies in its light weight and easy storage or transportation.

The two desk model slates consist not only of the hinged guide (without the pins for holding the paper), but a solid wooden board 9/16″ thick, with a metal hinge with 2 pins at the top for clamping the paper permanently into position. In addition, the guides are provided with a small round peg at either end which match corresponding holes in grooves along either side of the board. To use this slate, the guide is mounted in the two top holes on either side of the board and the top of the guide is opened back to the left. The paper is then inserted squarely into the hinge at the top which is then clamped into place, and the top of the guide is closed over the paper. When the first four lines of writing are completed, it is not necessary to open the guide, but simply to lift it slightly off the board (with the paper still between the top and bottom parts) and move it down so that the pegs on the back of the guide will slip into the next set of holes on either side of the board, and so on, until the entire page of writing is completed. In addition to speeding up the moving of the guide, the fact that the desk slate is mounted on a board assures a flat writing surface at all times.

PURPOSE

Each slate is designed for a different purpose, as follows:

Desk or Board Slates: The large desk slate is designed for use where there is considerable writing to be done, as in school or by hand-transcribers. It will accommodate either a 10″x12″ or a 11″x11½″ page. The small desk slate is designed for use by small children with shorter arms, and uses an 8″x12″ sheet.

Slates Without Boards: The three slates which are not used with boards are designed to be used as follows: The large 37-cell correcting slate is used primarily by transcribers when correcting errors, since it is easier to move about on the page than the large desk slate. The 28-cell pocket slate is the universal slate used by blind persons for their own writing, school children and adults alike, since it is light in weight and easily slipped into a pocket or purse. The 19-cell postcard slate is designed for writing on small cards and sheets of paper, and

is even more portable than the pocket slate, although it permits of a very limited amount of writing at any one time.

PRICES

The prices of the five slates (each supplied with a stylus) are as follows, postpaid in the United States:

Large desk slate (37-cells, 4 lines—overall size 12¼″ x 10¼″, mounted on a wooden board with paper hinge at top; guide made of nickel alloy)—$4.23.

Small desk slate (27-cells, 4 lines—overall size 12¼″ x 7¾″, mounted on a wooden board with paper hinge at top; guide made of nickel alloy)—$3.37.

Correcting slate (37-cells, 4 lines—overall size 11¼″ x 1¾″; guide made of nickel alloy) guide only—$2.21.

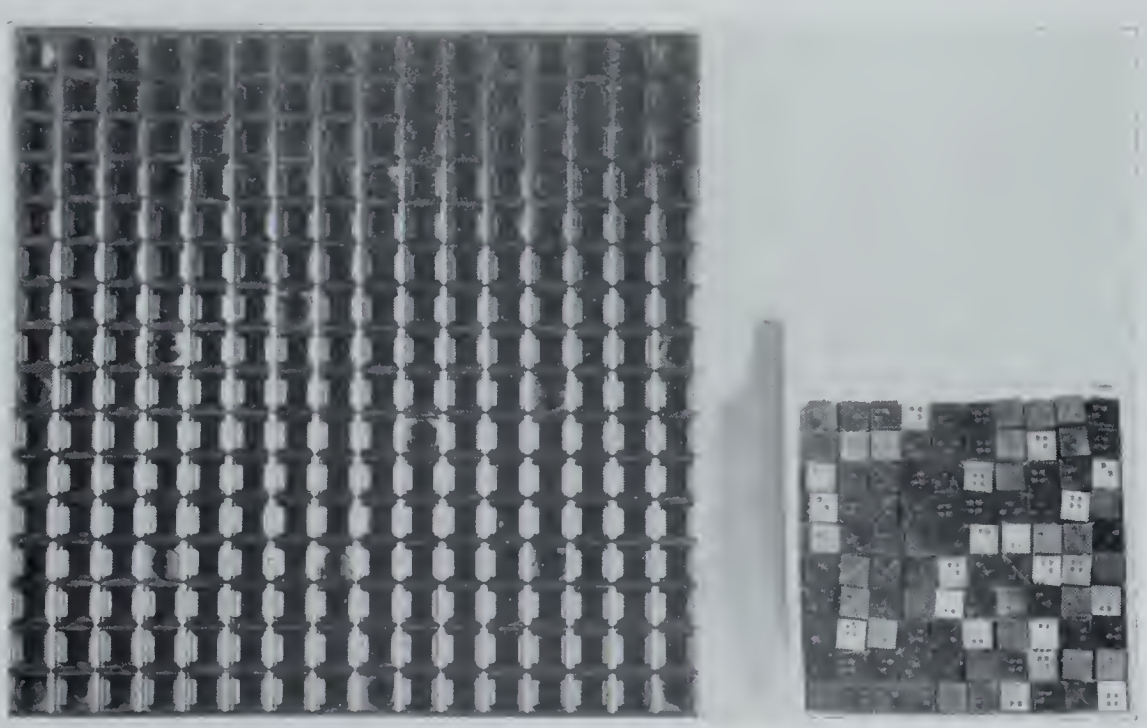
Pocket Slate (28-cells, 4 lines—overall size 8¼″ x 1¾″; guide made of aluminum in a choice of six colors—red, light and dark green, light and dark blue, and black) guide only—$2.11.

Postcard slate (19-cells, 4 lines—overall size 6″ x 1¾″; guide made of dark blue aluminum) guide only—$1.76.

Styluses—either large or small handles (made with cadmium-plated, conically-ground steel points, handles painted with black enamel)—13c each, or $1.31 per dozen. (Unless otherwise specified, only the regular, large-handled stylus will be supplied).

Brannan Cubarithm Slate

(For Mathematical Calculations)



Manufactured by

The American Printing House For The Blind

1839 Frankfort Avenue

Louisville 6, Kentucky

This device consists of a square, plastic type frame and a set of 100 plastic type.

The frame is molded from rigid, black phenolic plastic, and is 8¾″ x 9″ in size. There are 256 cells in the frame (16 x 16), each cell being ½″ x ½″ square.

A set of cubes consists of 100 separate, identical cubes, molded from rigid, black phenolic plastic, each cube being ⅜″ x ⅜″ x ⅜″. Each cube contains the Braille digits from 1 to 9 and 0 on five of the faces when properly positioned, plus the letter "o" on the sixth side which can be used for various purposes according to position.

The main purpose of the device is to aid in the teaching and working of problems of long division, multiplication of large numbers, subtraction, and addition.

The frame and set of cubes can be purchased separately or in combination, priced as follows, postpaid in the United States:

Frame — $1.62.

Cubes (set of 100 pieces) — $2.11.

Credit for the original design of the Brannan Slate should be given to R. E. Brannan, Summit, New Jersey, who has turned over his manufacturing and distribution rights to the American Printing House for the Blind.

The Brown Slate

Manufactured by

The American Printing House For The Blind

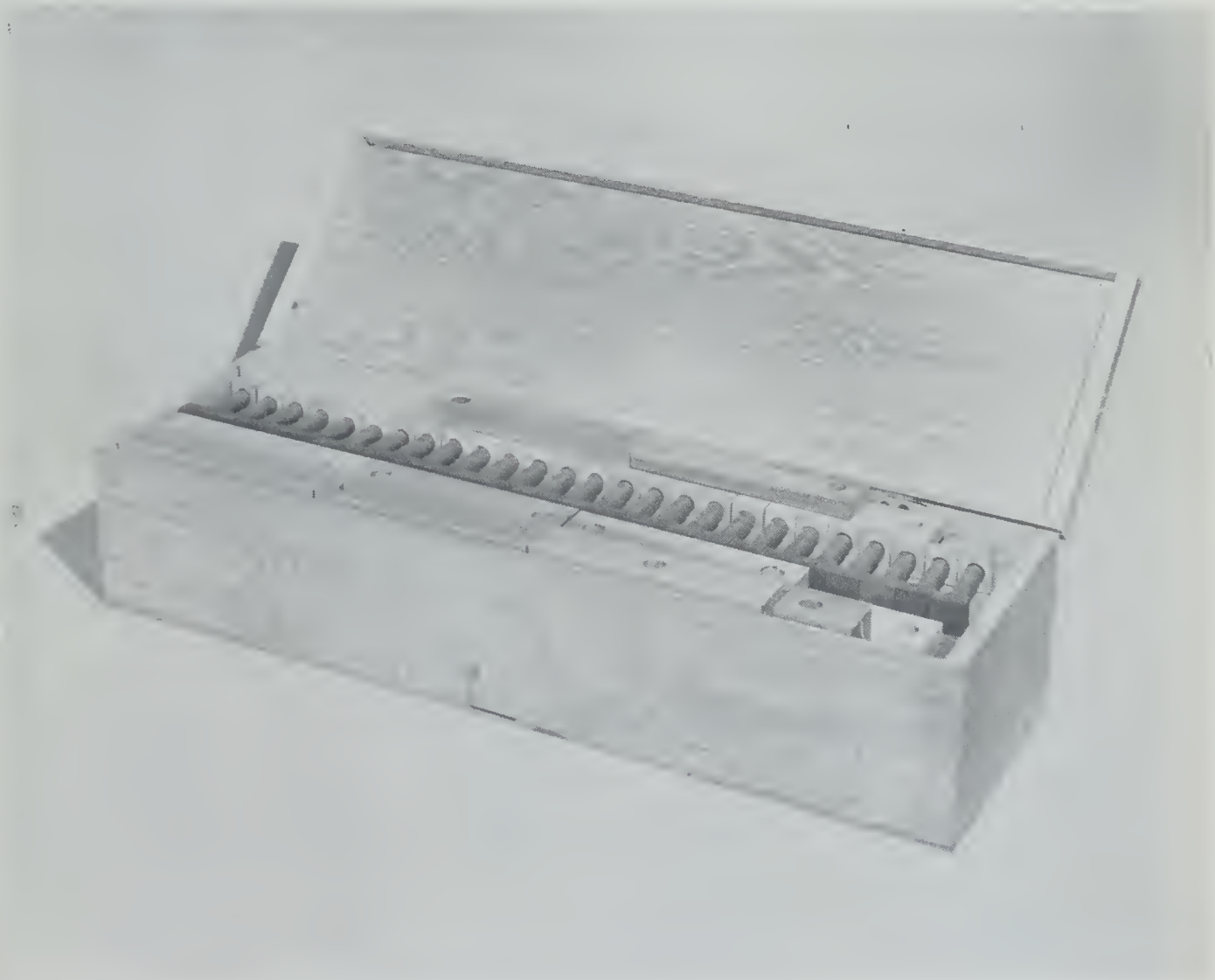
1839 Frankfort Avenue

Louisville 6, Kentucky

The Brown slate is a refinement of the regulation pocket slate to which has been added an extra frame to hold the pins for mounting the paper so that it is possible to drop open the bottom part of the guide and read what has been written without taking the paper out of the slate itself. (See photograph). The slate provides for 4 lines of writing, 28 cells each, and employs standard American Braille spacing—.090″ between adjacent dots within a cell vertically and horizontally; .250″ between horizontally adjacent dots of two adjacent cells within the same Braille line; and .400″ between vertically adjacent dots of two vertically adjacent cells of two adjacent Braille lines. The overall size of the slate is 8⅜″x2¼″. All slates are made of bronze-colored aluminum, and employ a regulation stylus.

Price (with stylus)—$2.91, postpaid in the United States.

Constructo Set No. 1



Manufactured by

The American Printing House For The Blind

1839 Frankfort Avenue

Louisville 6, Kentucky

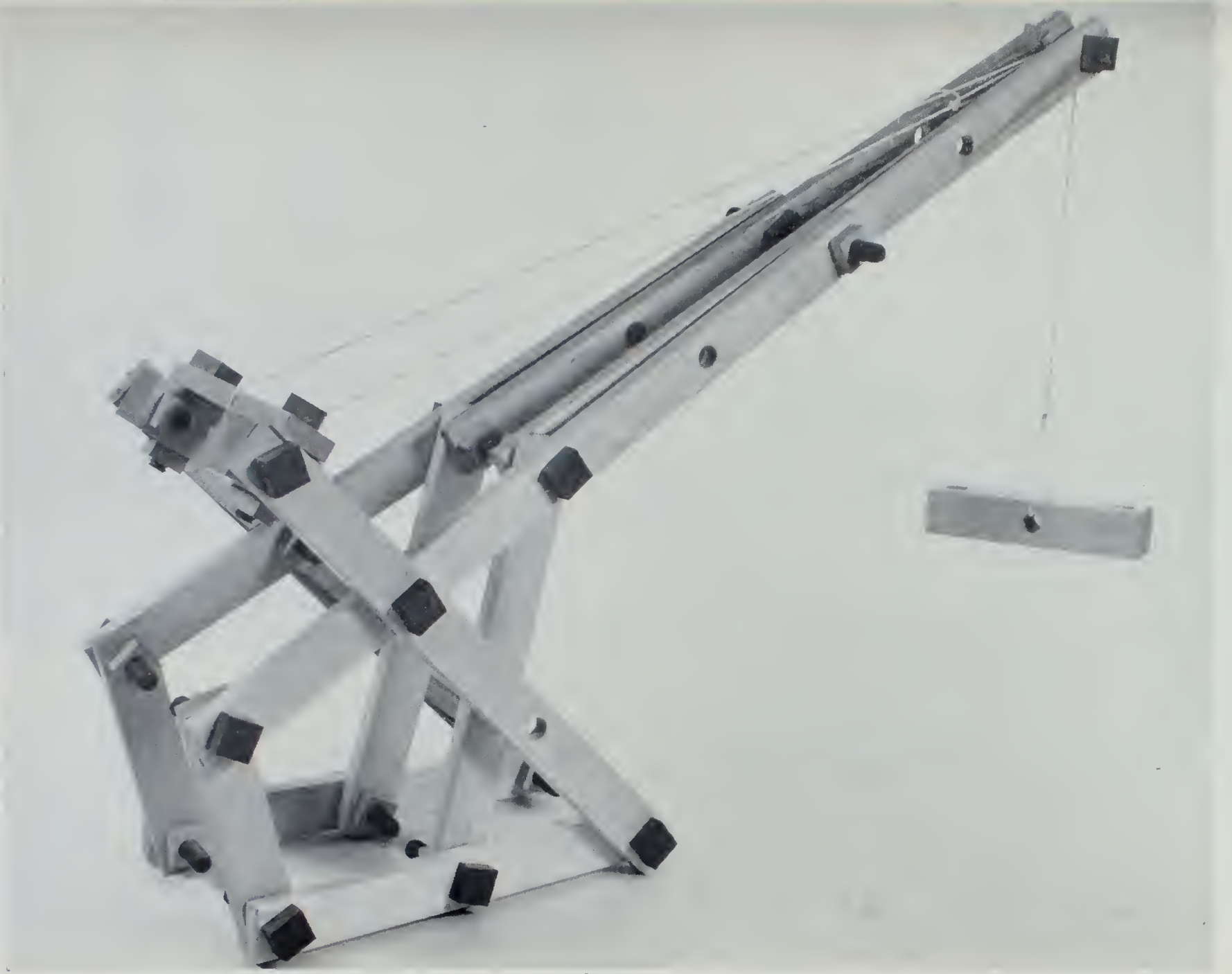
The Wooden Constructo Set is an educational toy consisting of various lengths of hard wood (with holes bored at regular intervals) and a quantity of wooden nuts and bolts. This device is similar in design and purpose to the metal erector sets which have been available commercially for many years, but is of wooden construction and much larger in design to enable the blind child to handle the pieces effectively.

Set #1 is priced at $42.75 postpaid in the United States and consists of the following items packed in a wooden storage box 8 x 11 x 33 inches in size:

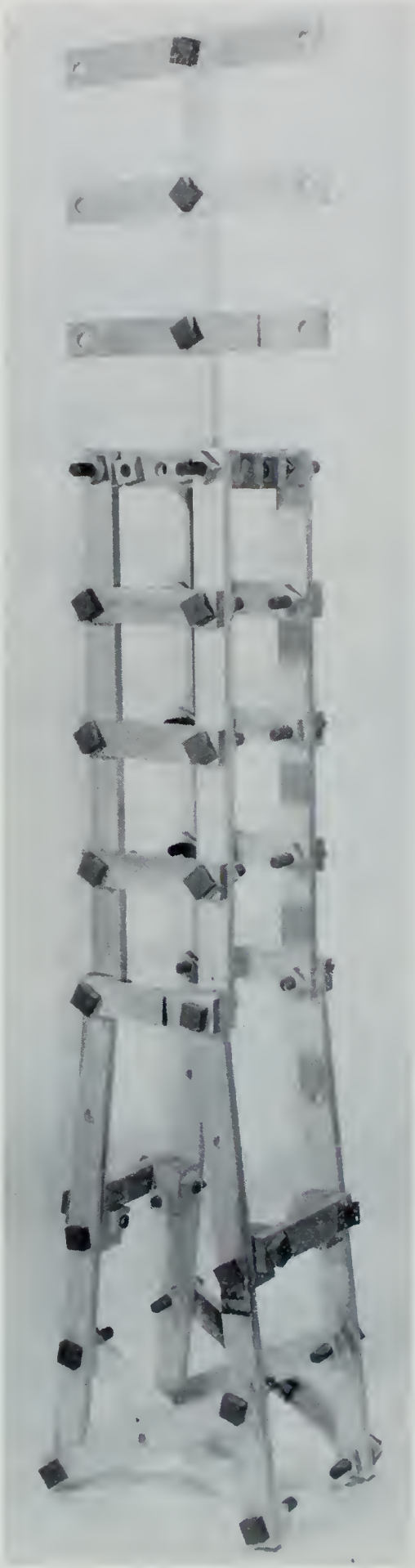
8 wooden lengths ¾ x 2 x 30 inches
8 wooden lengths ¾ x 2 x 23 inches
10 wooden lengths ¾ x 2 x 16 inches
15 wooden lengths ¾ x 2 x 9 inches
6 right angle joints 2 x 2 x 2-⅞ inches
4 right angle joints 2 x 2 x 9 inches
50 wooden bolts ⅝-inch diameter, 4 inches long

The purpose of this device is to give the blind child not only practice in the development of manual dexterity, but also to help him develop and train his creative abilities by assembling the pieces into various types of structures, such as bridges, derricks, windmills, chairs, and many other items, a few of which are suggested in the accompanying photographs.

Only Set #1, as listed above, is available at the present time, and is being sold in complete sets only.



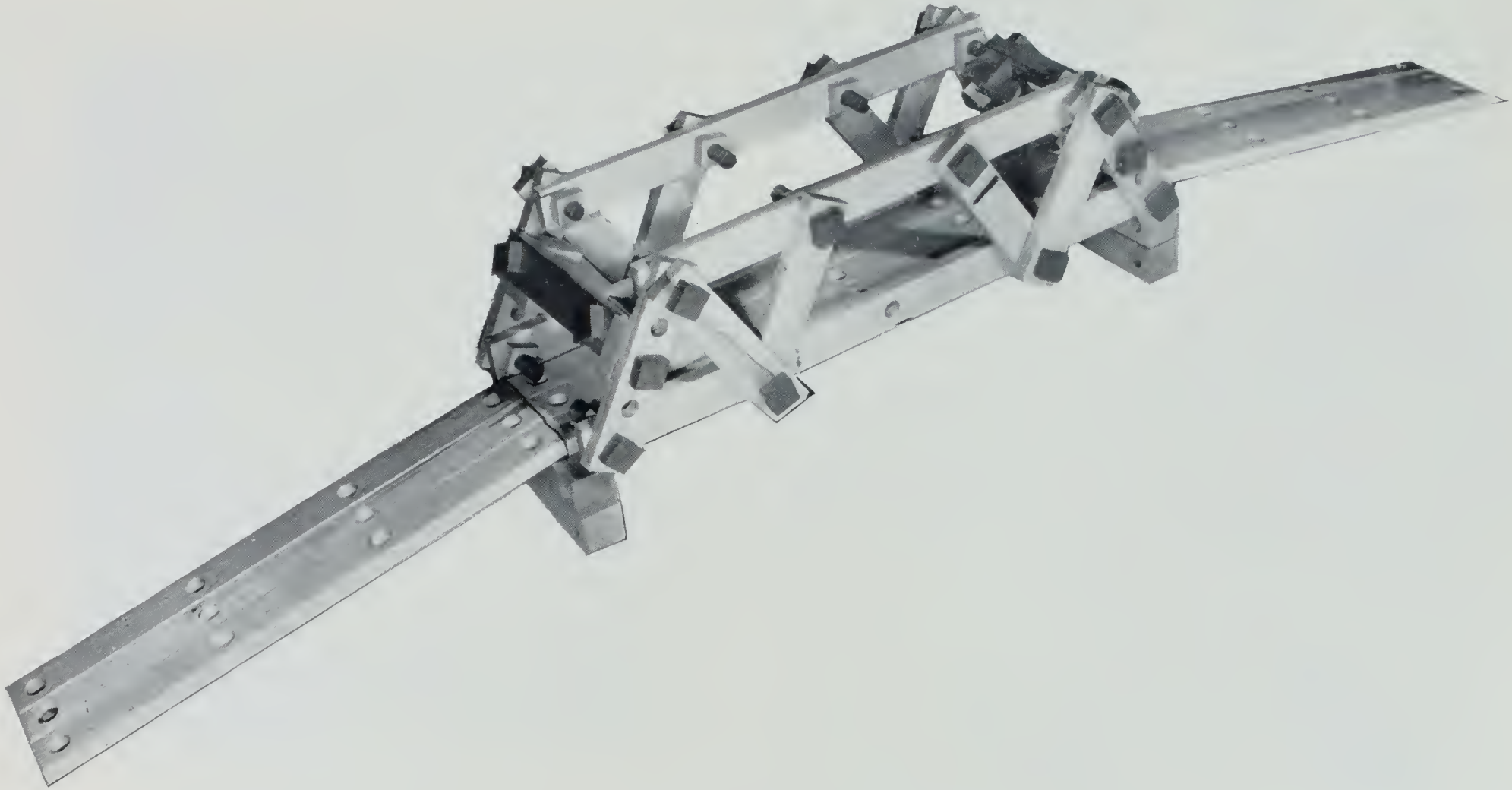
Crane



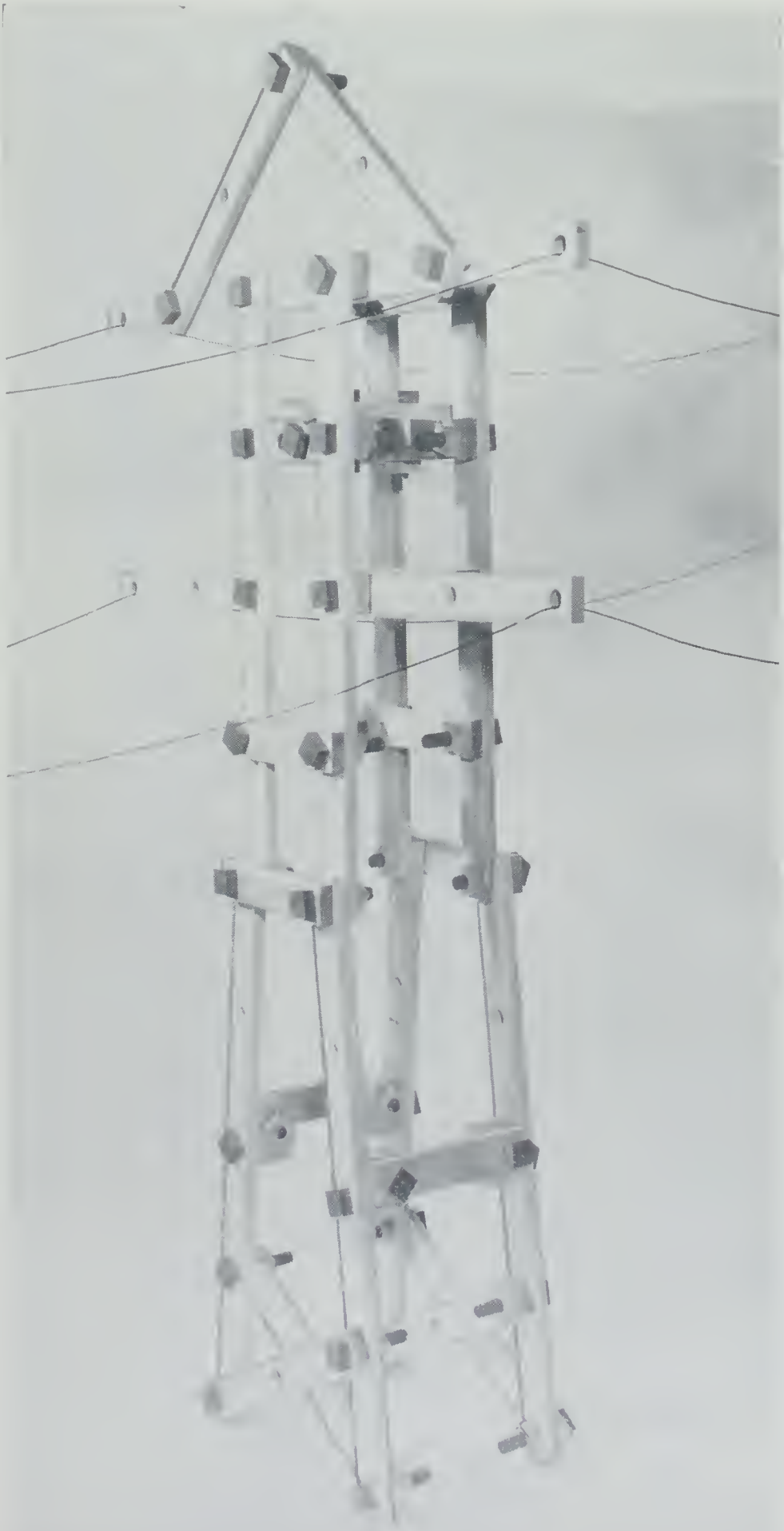
T.V. Tower

Construction Details on Top of T.V. Tower

Construction Details

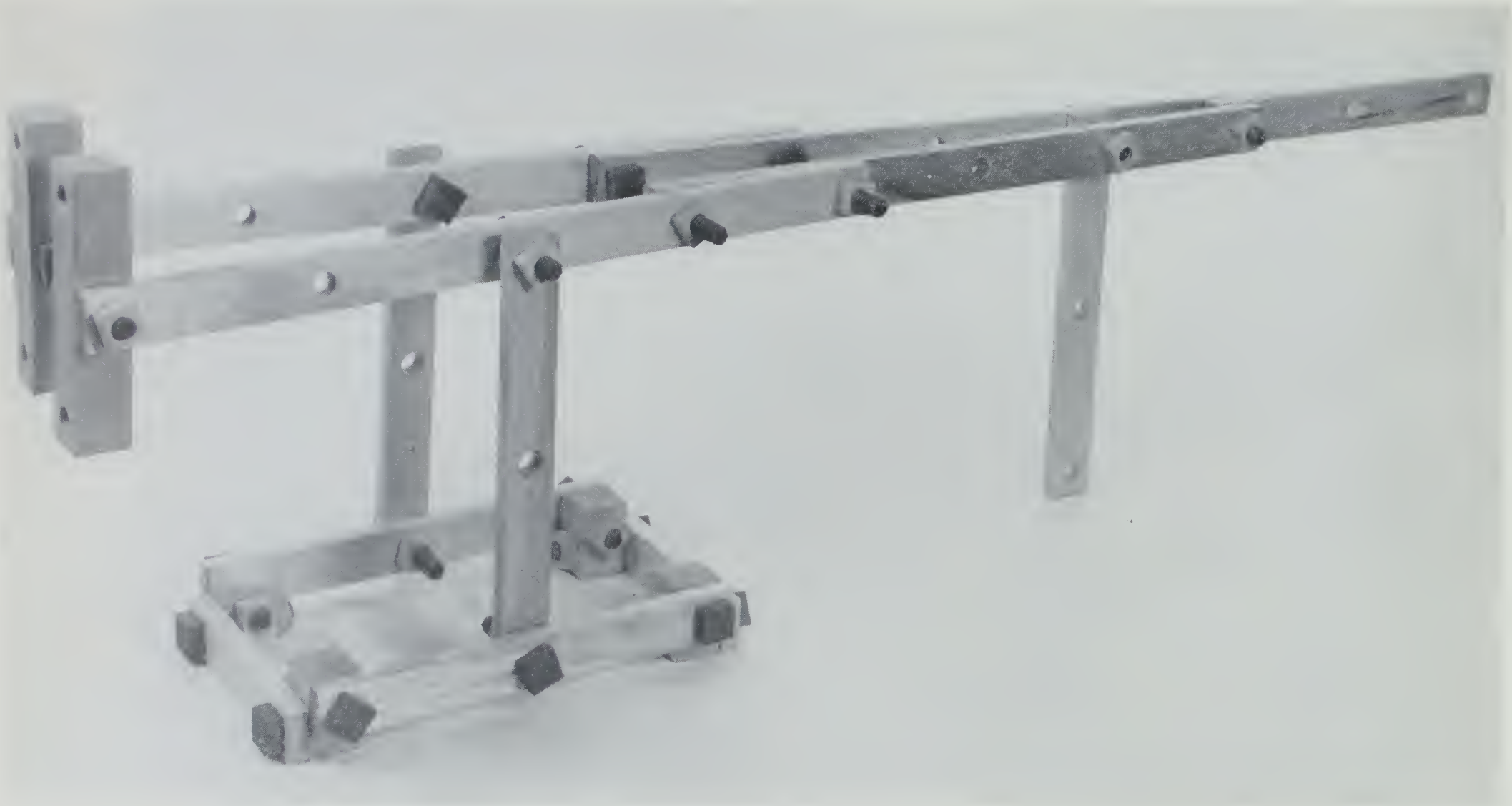


Bridge

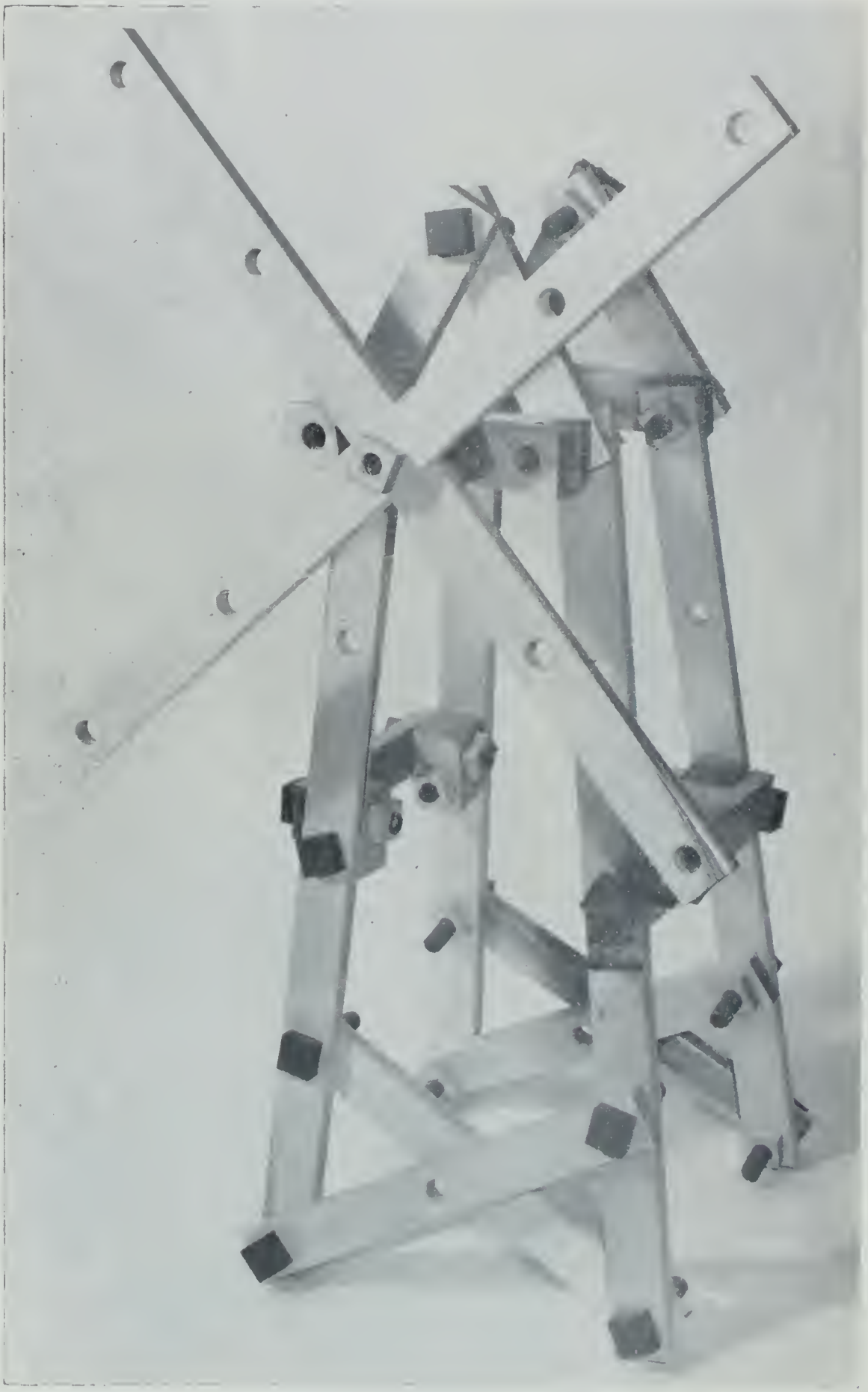


High-Tension Tower

Railroad Semaphore



Railroad-Crossing Gate



Windmill

Chair

Turnstile

Rake

Embossed Pencil-Writing Paper

Manufactured by

The American Printing House For The Blind

1839 Frankfort Avenue
Louisville 6, Kentucky

Regulation white Braille paper, embossed with heavy guide lines ½″ apart, is available for use for pencil-writing by the blind. The sheets, 10½″ x 8¾″ in size, are made up in pads of 165 to a pad.

Price — $1.00 per pad, postpaid in the United States.

Dissected Maps of Continents

Manufactured by

The American Printing House For The Blind

1839 Frankfort Avenue

Louisville 6, Kentucky

DISSECTED CONTINENTAL MAPS

Large, dissected easel-type maps of the various continents are available in two forms, flat and in relief. All maps are made of wood, hand-carved, and are dissected, so that individual countries or states can be lifted out for easy examination. Each individual country or state is lacquered in a different color. Main rivers, lakes and oceans are all colored blue, water bodies being depressed from the land masses for easy recognition with the finger. Capital and large cities are indicated by different sizes and shapes of nailheads. Where relief is shown, the elevations are exaggerated 30 per cent in comparison with the horizontal areas. Each map is approximately 42″ x 50″ in size, and weighs 100 pounds packed for shipment.

Prices:

In Relief:

Africa	$330.00*
Asia	330.00*
Australia and the Philippines	240.00*
Europe	270.00*
North America	330.00*
South America	270.00*

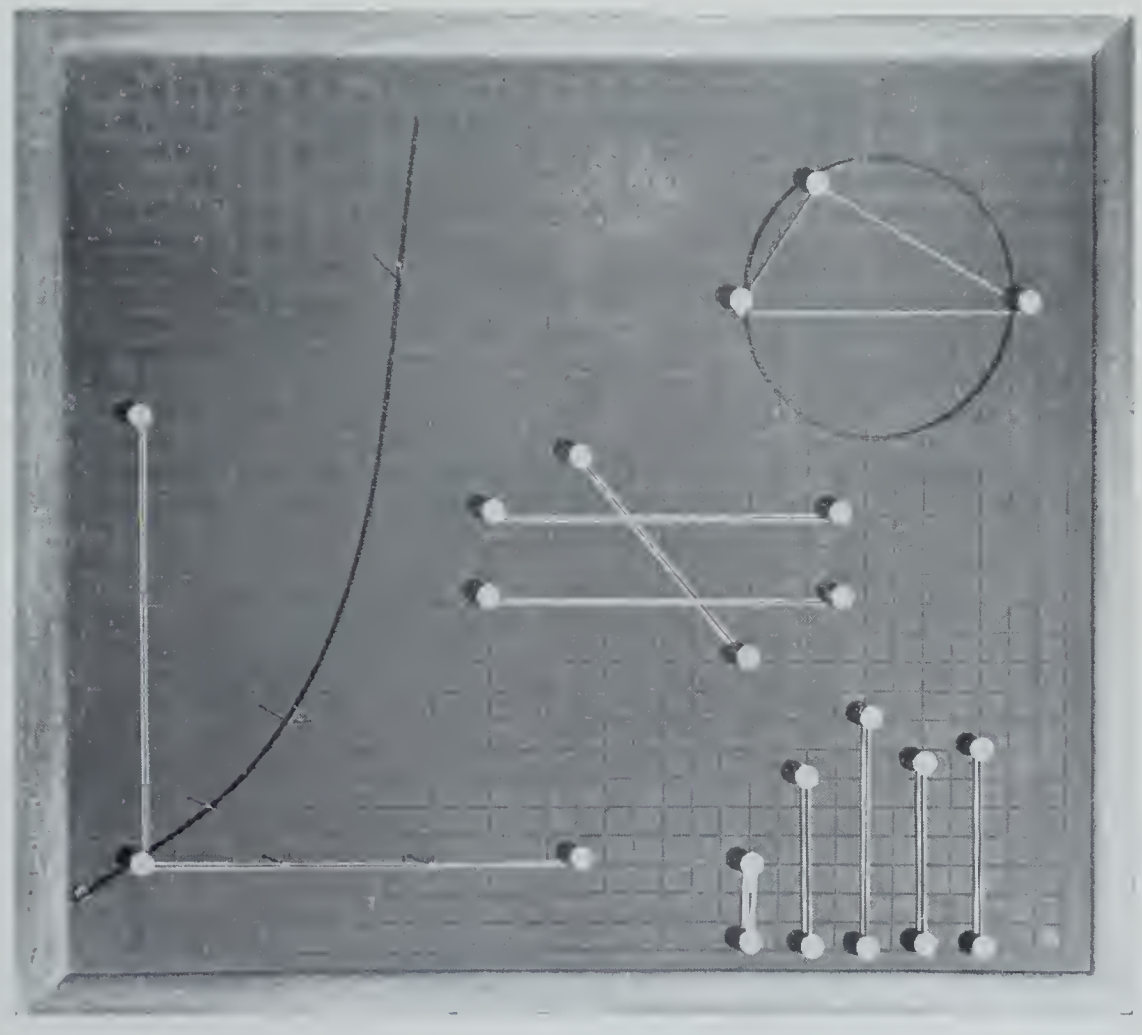
Flat Puzzle Maps (no relief):

Africa	$155.00*
Asia	180.00*
Europe	180.00*
North America	155.00*
South America	155.00*
United States	155.00*

Easels— While all of the maps can be used flat on a table, it is recommended that wooden easels, equipped with castors, be provided at a cost of $25.00, plus shipping charges on 20 lbs. (When ordering easels, it is requested that the specific maps with which they are to be used be designated, so that the proper size can be supplied.)

*Freight shipping costs additional.

Graphic aid for Mathematics



Manufactured by

The American Printing House For The Blind

1839 Frankfort Avenue

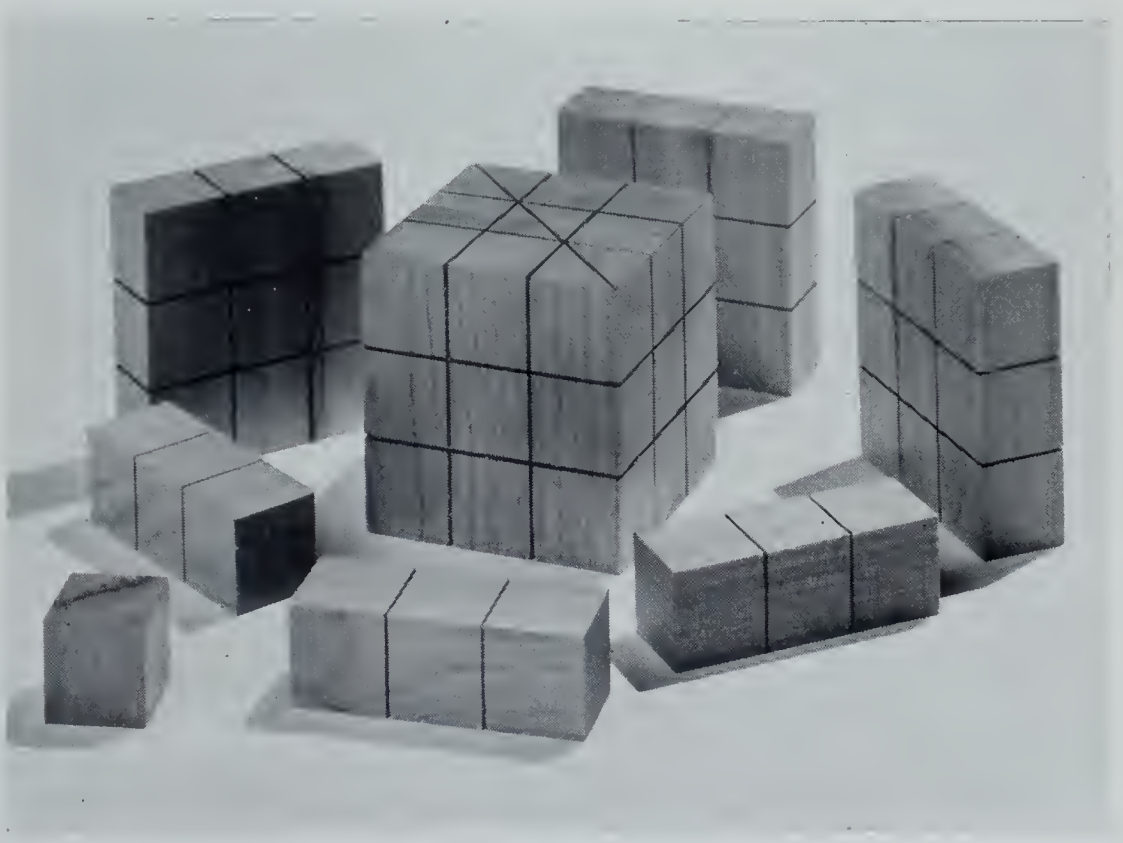
Louisville 6, Kentucky

The Graphic Aid for Mathematics consists of a cork composition board (18″ x 19″ x 1″) on the surface of which has been mounted a synthetic moulded rubber mat embossed with vertical and horizontal lines spaced ½″ apart. Accompanying the board is a supply of plastic-headed pins, rubber bands, and flat spring wires. These are to be used in the construction of geometrical and other mathematical figures on the face of the board by inserting the push-pins at various coordinates and connecting these points with rubber bands (for lines) or the flat spring wires (for circles and arcs), as shown in the photograph. With the use of this board, students will be able to construct any plane geometrical figure necessary for the study of arithmetic, algebra, plane geometry, trigonometry, analytical geometry and differential and integral calculus. It can also be used to construct bar and circle graphs, and as a game for younger children.

The price of the Graphic Aid is $12.65, postpaid in the United States. Each set consists of the following items:

- 1 board 18″ x 19″ x 1″
- 1 cylindrical container holding:
  - 3 flat spring wires
  - 14 plastic-headed push pins
  - A supply of rubber bands

The Master Cube



Manufactured by

The American Printing House For The Blind

1839 Frankfort Avenue

Louisville 6, Kentucky

This device consists of a four-inch cube, made of polished hardwood, and cut into eight pieces:

1 1″ cube

3 blocks, 1″ x 1″ x 3″

3 blocks, 3″ x 3″ x 1″

1 cube, 3″ x 3″ x 3″

The larger blocks are grooved, so that the units of length, area, or volume can be easily recognized by sight or touch.

In arithmetic, the blocks can be used to visualize all four fundamentals—addition, subtraction, multiplication, and division. By using the solid blocks, the student's interest is stimulated, for observation, measuring and weighing of volume and capacity.

Price—$4.12, postpaid in the United States

Credit for the original design of The Master Cube should be given to G. Gilbert Scott, of Los Angeles, California, who devised the original design.

Maps of the United States

Molded Plastic Dissected Relief Map of United States

Manufactured by

The American Printing House For The Blind

1839 Frankfort Avenue

Louisville 6, Kentucky

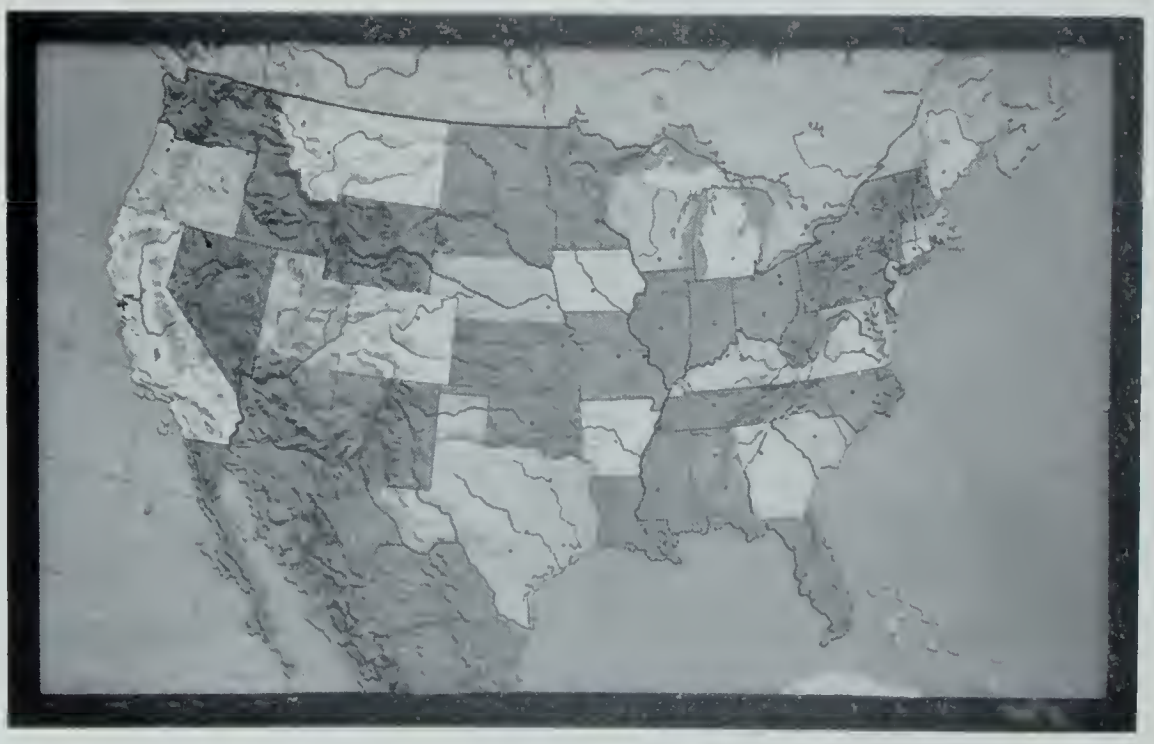
DISSECTED, EASEL-TYPE MAPS OF U.S.

Three, dissected, easel-type maps of the United States are available, as follows:

Large, Dissected, Relief — (approximately 42″ x 50″ in size), molded from rigid polyester plastic, and dissected so that the individual states can be lifted out for easy examination. Each individual state is lacquered in a different color. Main rivers, lakes and oceans are all colored blue, water bodies being depressed from the land masses for easy recognition by the finger. Capital and large cities are indicated by different sizes and shapes of nailheads. Elevations are exaggerated 30 times in comparison with the horizontal areas.

Price—$280.00 (plus freight charges on 100 lbs. from Louisville to destination).

Small, Dissected, Relief — (approximately 19¼″ x 31¼″ in size), molded from semi-rigid rubber, for desk use, and dissected so that the individual states can be lifted out for easy examination. Each individual state is lacquered in a different color. Main rivers, lakes and oceans are all colored blue, water bodies being depressed from the land masses for easy recognition by the finger. Capital and large cities are



Molded Rubber, Dissected Relief Map of United States

indicated by different sizes and shapes of nailheads. Elevations are exaggerated 22.5 times in comparison with the horizontal areas. Longitude and latitude lines are shown depressed on the ocean areas, and their positions west from Greenwich and north from the Equator, respectively, are given in Braille.

Price—$135.60, postpaid.

Large, Dissected, Flat — (approximately 42″ x 50″ in size), made of heavy plywood, and dissected so that the individual states can be lifted out for easy examination, or for use as a puzzle map. All land masses are of natural colored wood, coated with shellac. Main rivers, lakes and oceans are all colored blue, water bodies being depressed from the land masses for easy recognition by the finger. Capital and large cities are indicated by different sizes and shapes of nailheads.

Price—$155.00 (plus freight charges on 100 lbs. from Louisville to destination).

Easels— While all of the maps can be used flat on a table, it is recommended that wooden easels, equipped with castors, be provided for all but the small one. (When ordering easels, it is requested that the specific maps with which they are to be used be designated, so that the proper size can be supplied).

Price—$25.00, (plus express or freight on 20 lbs. from Louisville to destination).

Vacuum-formed Plastic Relief Map—Desk Size

indicated by different sizes and shapes of nailheads. Elevations are exaggerated 22.5 times in comparison with the horizontal areas. Longitude and latitude lines are shown depressed on the ocean areas, and their positions west from Greenwich and north from the Equator, respectively, are given in Braille.

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Price—$25.00, (plus express or freight on 20 lbs. from Louisville to destination).

Vacuum-formed Plastic Relief Map—Desk Size

MAPS OF THE U.S. FOR DESK USE

Four different maps of the United States are available for desk use, as follows:

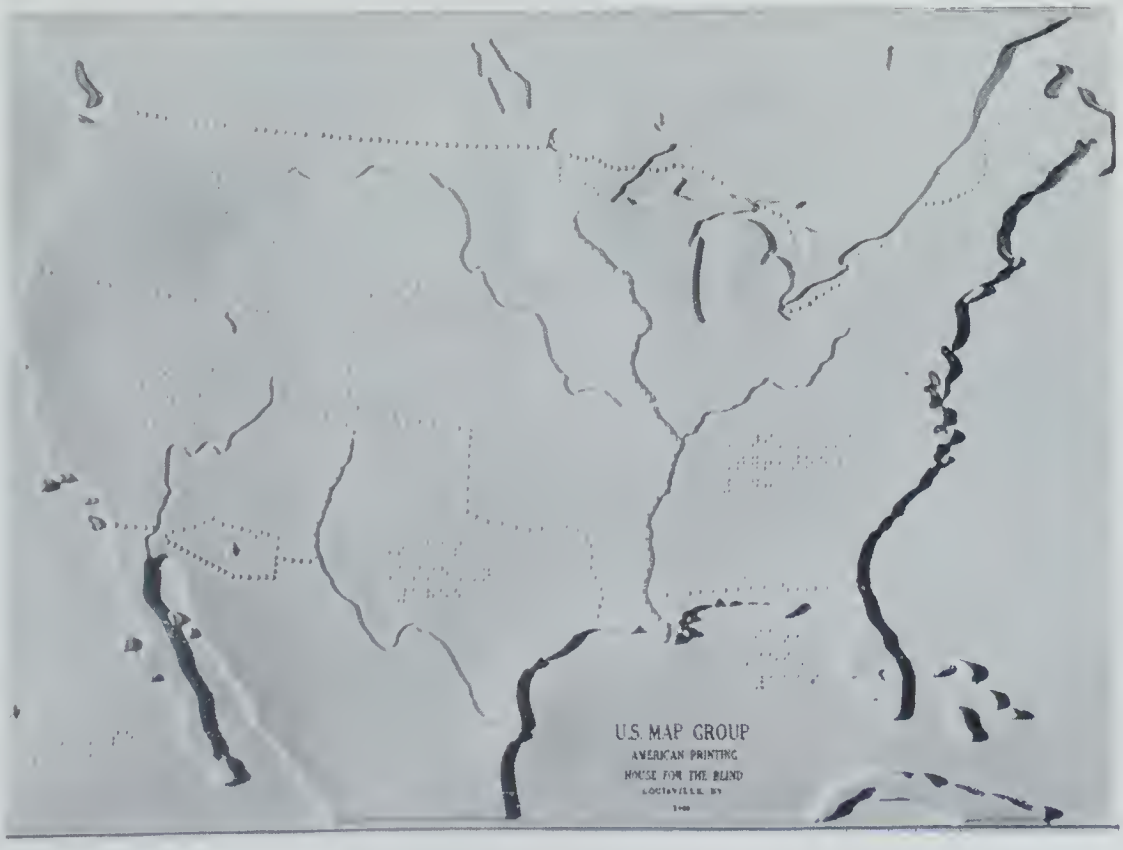
Plastic, Undissected, Relief— (21½″ x 15¾″ in size), vacuum-formed from rubber-modified styrene. The map is in full relief, with the elevations exaggerated 20 times in comparison with the horizontal areas. It may be obtained either in unpainted, plain white, or painted in contrasting colors, blue for the water areas, and yellow for the land surfaces, plus a light brown tinting of the mountainous elevations.

Prices—White, $2.50, postpaid.

Painted in colors, $3.50, postpaid.

Plastic, Undissected (no relief), showing United States Territorial Expansion — (21½″ x 15½″ in size), vacuum-formed from rubber-modified styrene. This map (without relief) shows the major rivers and water bodies in the continental United States, plus the addition of dotted lines outlining the territorial expansion of the United States from 1783 to 1853. It comes in unpainted, plain white color only.

Price — $2.50 postpaid.



Vacuum formed plastic Map showing
U. S. Territorial Expansion—Desk Size

Large Type Outline— (20½″ x 13¾″ in size), printed in black ink on regular buff antique-finish paper. This is a simple outline map, showing only the borders of the United States and of the individual states.

Price—Package of 10, 80c, (plus parcel post on 2 lbs. from Louisville to destination).

Large Type Outline Map—Desk Size

Storage Folders—(22″ x 16″ x ⅝″ in size), are available to accommodate all of the above three maps. The folders are made of heavy cardboard, hinged together with imitation leather cloth, and reinforced on the corners.

Price—$1.40, postpaid.

Braille Outline— ($20\frac{1}{2}''$ x $13\frac{3}{4}''$ in size), printed on regular white Braille paper. This is a simple outline map, showing only the borders of the United States and of the individual states.

Price—Package of 10, 85c postpaid.

Braille Outline Map—Desk Size

Large Type Writing Paper

Manufactured by

The American Printing House For The Blind

1839 Frankfort Avenue

Louisville 6, Kentucky

Buff-colored paper, of the same quality and thickness as paper used in printing large type books, and printed with heavy green lines ¾″ apart, is available for pencil-writing by the partially visioned. The sheets, 9″ x 12″ in size, are unpadded, and are available with the lines running either the short or long way of the paper. Each pound contains approximately 60 sheets. When ordering, specify whether lines are to run the width or length of the paper.

Price — 35c per pound, plus postage as noted below:

Postage zones (from Louisville)	1	2	3	4	5	6	7	8
Postage and insurance	.27	.27	.29	.31	.36	.40	.46	.51

CLOCKFACE

WITH

BRAILLE NOTATION

Manufactured by

The American Printing House For The Blind

1839 Frankfort Avenue

Louisville 6, Kentucky

The Braille Clockface is an educational appliance designed for teaching blind children to learn to read time. It consists of a metal face, with movable hands geared in the regular manner (but without a motor or other driving mechanism) mounted in a round, black plastic frame 7 inches in diameter and 1 inch thick in size. The twelve numbers for the hours are in embossed form in both Braille and ink print, the Braille numbers being on the inside rim of the plastic case immediately outside the metal face, while the ink-print Arabic numerals are embossed on the clockface itself in figures about ¾ inch in height. This will enable blind children not only to learn to read time, but also to learn the shape of ink-print numbers. Because the hands are attached to regular clock gears inside the frame, the hour hand follows the minute hand in proper sequence as the latter is moved forward or backward into any desired position.

The price of the Braille Clockface is $2.50, plus 12 cents postage and insurance in the United States — a total of $2.62 each.

The Hoff Aid

(Upward-writing Slate)

Manufactured by

The American Printing House For The Blind

1839 Frankfort Avenue

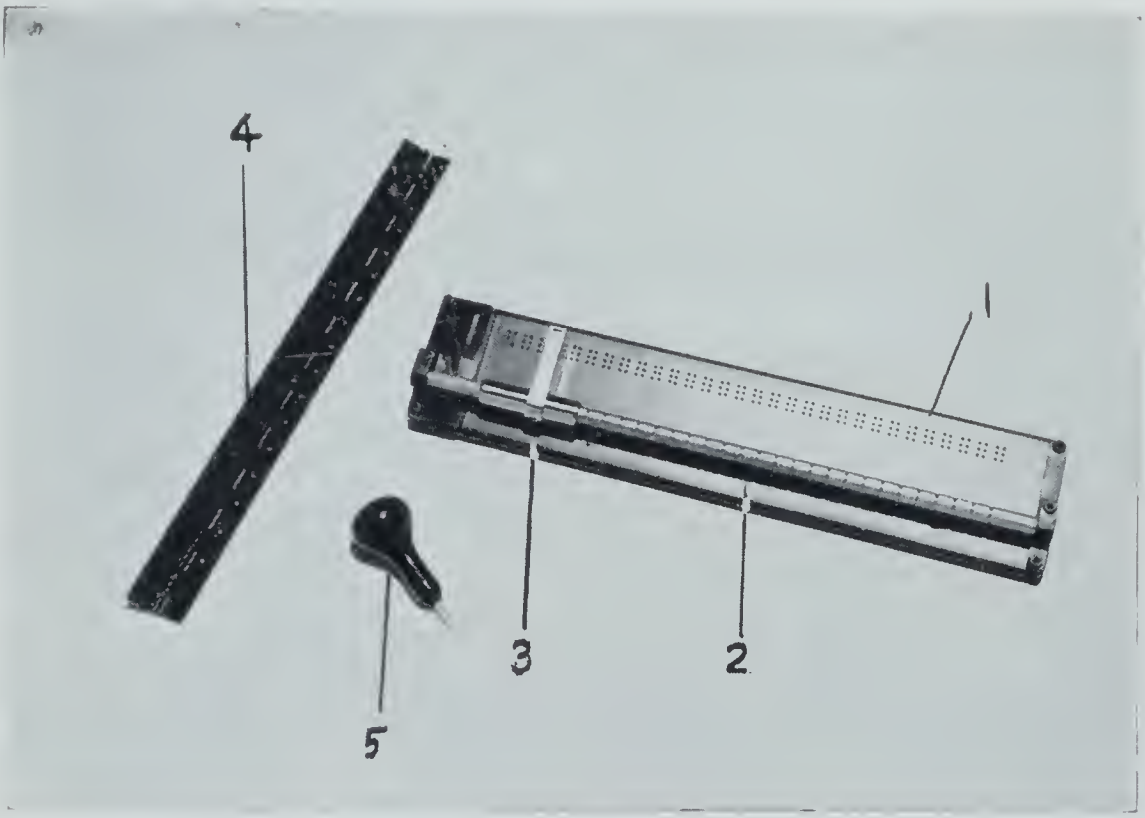
Louisville 6, Kentucky

The Hoff Aid is in the nature of an upward-writing slate, and is designed primarily for use in making mathematical calculations on paper. Its main advantage lies in the fact that it permits examination of the Brailled characters at all times without having to remove the paper from the slate. It is not designed for taking notes and the like, since it does not permit the necessary speed in writing.

The device consists of a flat sheet of black metal, 9¼″ long by 2⅛″ wide, on which a single line of 30 6-dot Braille cells have been stamped with the dots pointing upward. Mounted over the frame is a round steel bar along which a movable die-box is made to travel over the raised line of dots by pushing with the finger after each Braille character is punched. The steel rod itself is slotted at ¼″ intervals so as to position the die-box over the Braille dots for writing cell by cell. The die-box is fitted with 6 inverted, conically-shaped caps the size of Braille dots, which are held in place by small springs and are arranged to fit down over the Braille dots below when depressed. A regular Braille stylus is used to push the caps down over the raised dots, with the paper between, to form the Braille characters. The paper itself is mounted in a hinged metal line-index paper feed, which is in turn slipped into the slate at the left between the bottom of the slate and the rod with the movable die-box. The movable die-box can be pushed from left to right as desired, and the line-index paper feed (with the paper) can be moved up and down at will to give proper line spacing. Further, if desired, the die-box can be flipped back from over the line of writing to permit easy reading of calculations already written. When not in use, the line-index paper feed can be fitted under two clamps under the bottom of the slate, so as not to become separated from the frame.

The maximum size of paper which can be used with the Hoff Aid is 8½″x9½″, providing for 16 Braille lines of 30 cells to the line.

Price—$22.66, postpaid in the United States.



1. Line of upward-pointing dots.
2. Slotted steel bar over which movable diebox runs.
3. Movable diebox.
4. Hinged line-index paper feed.
5. Stylus.

RAISED-LINE CHECK BOOK

Manufactured by

The American Printing House For The Blind

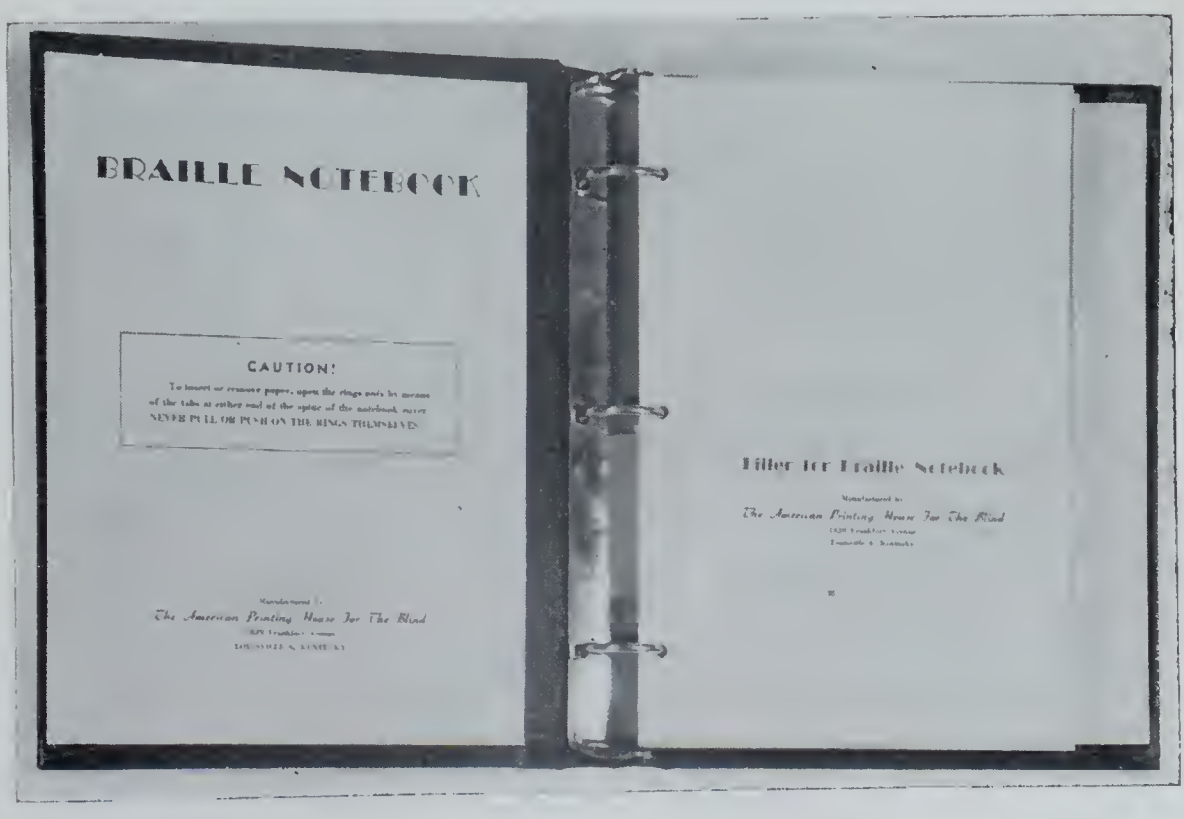
1839 Frankfort Avenue

Louisville 6, Kentucky

This raised-line checkbook is designed for use by blind people, and is printed with raised ink-print lines on regulation checkbook paper, size 7-1/4″ x 2-5/8″ x 5/16″, with a plastic cover. It is bound with a wire binding, for easy detachment of checks, and is interleaved with plain white Braille paper for stub record-keeping.

Price — 40 cents each postpaid.

Braille Slate and Writer Paper
Braille Notebooks with Braille Paper Fillers
Transcribing Paper



Manufactured by

The American Printing House For The Blind

1839 Frankfort Avenue

Louisville 6, Kentucky

ille Slate and Writer Paper

for use with slates and/or Braillewriters is chase in units of 4 pounds each. Of the same tandard brown magazine paper used by the n the printing of magazines, it is a good grade, per, of approximately 70-pound weight (see . Each pound of paper comprises 45-55 sheets, depending on size, as follows:

8″ x 12″ (for use with a 28-cell pocket, small desk, or Brown slate, allowing little or no margin).

9″ x 12″ (for use with a 28-cell pocket, small desk, or Brown slate, allowing a 1½″ margin at the left).

10″ x 12″ (for use with a 37-cell slate or Braillewriter, allowing little or no margin).

11″ x 11″ (for use with a 37-cell slate or Braillewriter, allowing 1⅜″ margin at the left).

Price — $1.00 per 4 pounds postpaid in the United States. (Quantity orders will be accepted, but only in multiples of 4-pound units).*

Braille Notebooks with Punched Braille Paper Fillers

Special Braille notebook covers are available with matching punched paper fillers of the same four paper sizes noted above. The notebook covers are made of extra heavy board, covered with a good grade waterproof imitation leather cloth. The strong metal binders contain three rings 1½″ in diameter, with a center-to-center distance apart of 4¼″. Because of the quality of materials used, the notebooks are designed for heavy wear. The paper fillers are made of the same brown magazine paper as regular slate or writer paper (sample attached), with three holes punched in the left-hand margin to match the rings in the notebook covers.

Prices — Notebook only (to fit any one of the 4 paper sizes) — $2.14 postpaid in the United States.

Fillers only — 3-pound package (any one of the 4 sizes) — $1.00 postpaid in the United States.

*Plain Braille paper, unpunched, is not available on quota accounts to the schools and classes for the blind.

Braille Transcribing Pap

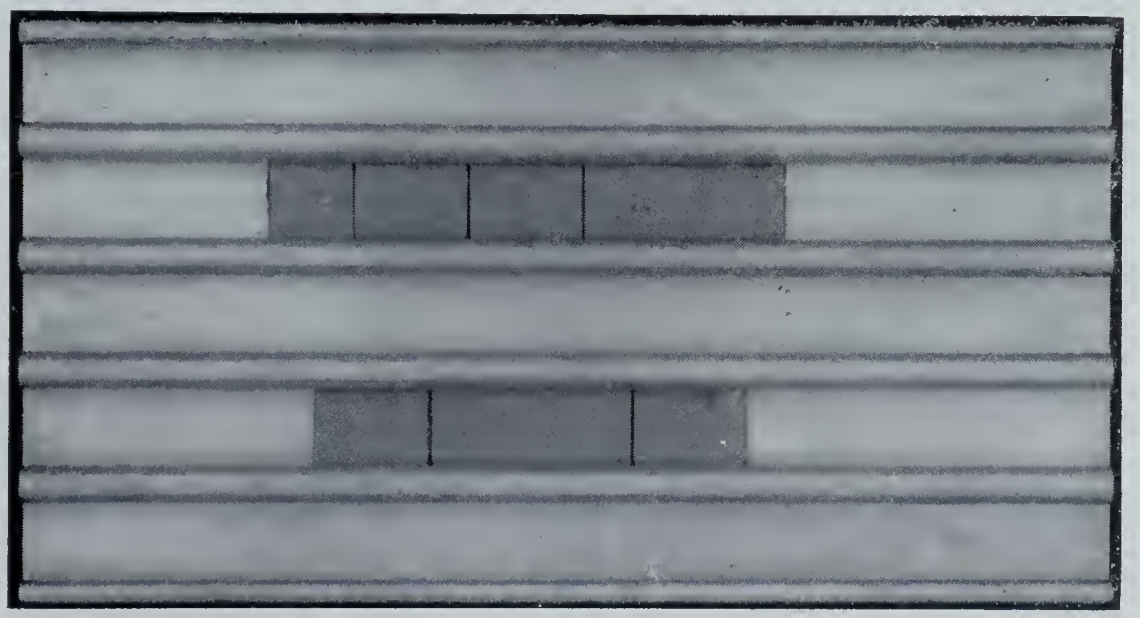
Braille paper for use with 37-cell desk s
slates) and/or Braillewriters, for transcribing
able for purchase in ream lots of 500 sheets.
standard 100# manila paper, 11″ x 11½″ in
attached below).

Price — $3.00 per ream postpaid in the U

(Quantity orders will be accepted, but only in multiples of ream lots, i.e., 2 reams, 3 reams, 10 reams, etc.)*

Plain transcribing Braille paper, unpunched, is not available on quota accounts to the schools and classes for the blind.

SPELLING FRAME
with
WORDS



Manufactured by

The American Printing House For The Blind

1839 Frankfort Avenue

Louisville 6, Kentucky

This device consists of a slotted, metal frame, and a set of individual Brailled words mounted on cardboard.

The spelling frame is made of lightweight magnesium, natural color, being 4¾″ x 9″ in size. There are 5 slots running the long way of the frame, each slot, being 13/16″ wide, and into which the individual words can be fitted in lines.

The set of words comprises the same set of 158 words used in the Unit Flashcards for the "Basic Reading Series" preprimers of this series which are also in Braille. The words are embossed in Braille grade 2. Sufficient space above and below the Braille words is provided within the spacing of the slots of the frame to allow for easy reading with the fingers.

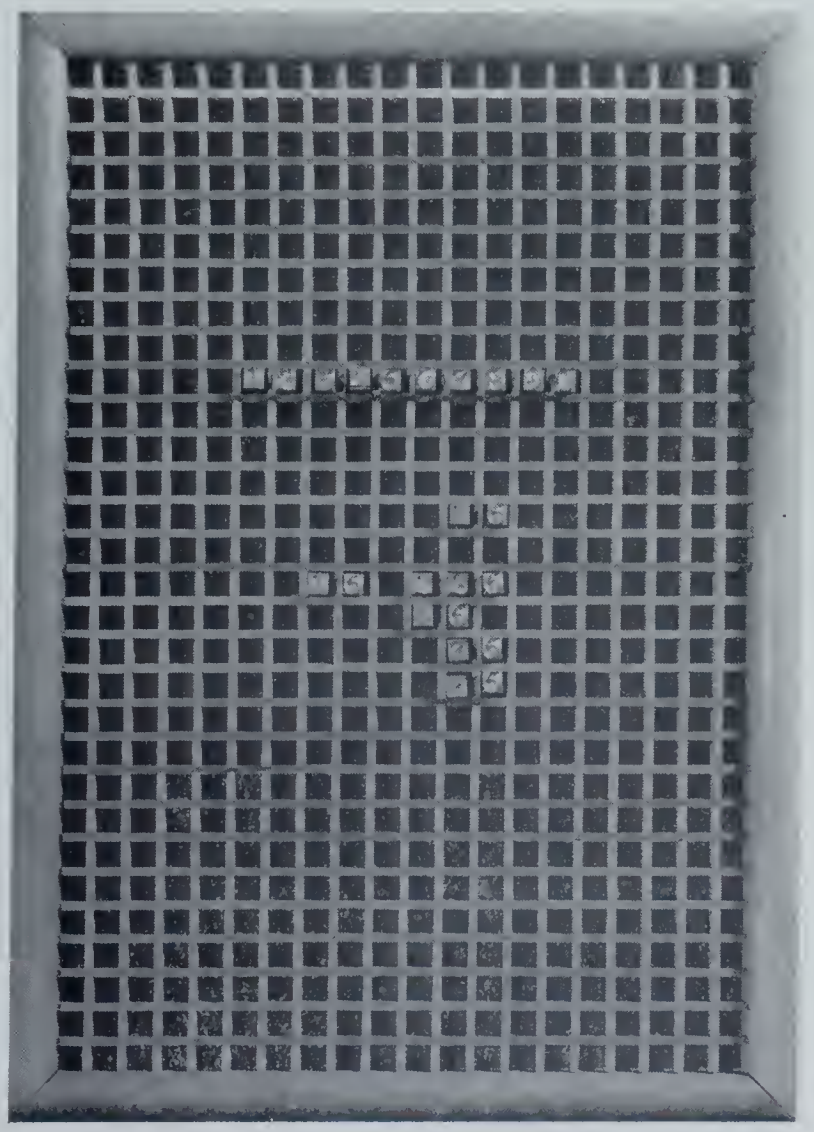
The purpose of this device is to aid in teaching spelling, easy recognition of words, and sentence building.

The frames and the set of words can be purchased separately or in combination, priced as follows, postpaid in the United States:

Frame—$1.11.

Set of Unit Words (158 to set)—$1.11.

TEXAS ARITHMETIC SLATE AND TYPE



Manufactured by

The American Printing House For The Blind

1839 Frankfort Avenue

Louisville 6, Kentucky

This device consists of a rectangular, wooden type frame and a set of 150 Philadelphia Great Primer ink-print lead type.

The frame is manufactured of hard maple, with a natural finish, and is 8½″ x 12⅜″ x 1″ in size. There are 600 cells in the frame (20 x 30), each cell being 5/16″ x 5/16″ square.

A set of type consists of 150 pieces of Philadelphia Great Primer ink-print lead type, 7/32″ x 7/32″ x ⅝″ in size, comprising 15 sets of the digits from 1 to 9, and 0.

The main purpose of the device is to aid in the teaching and working of problems of long division, multiplication of large numbers, subtraction, and addition. Additionally, the type itself can be used in teaching the shape of ink-print numerals to blind children.

The frame and set of type can be purchased separately or in combination, as follows, postpaid in the United States:

Frame—$7.62.

Type (set of 150—15 of each digit 1 to 9, plus 0)—$4.62.

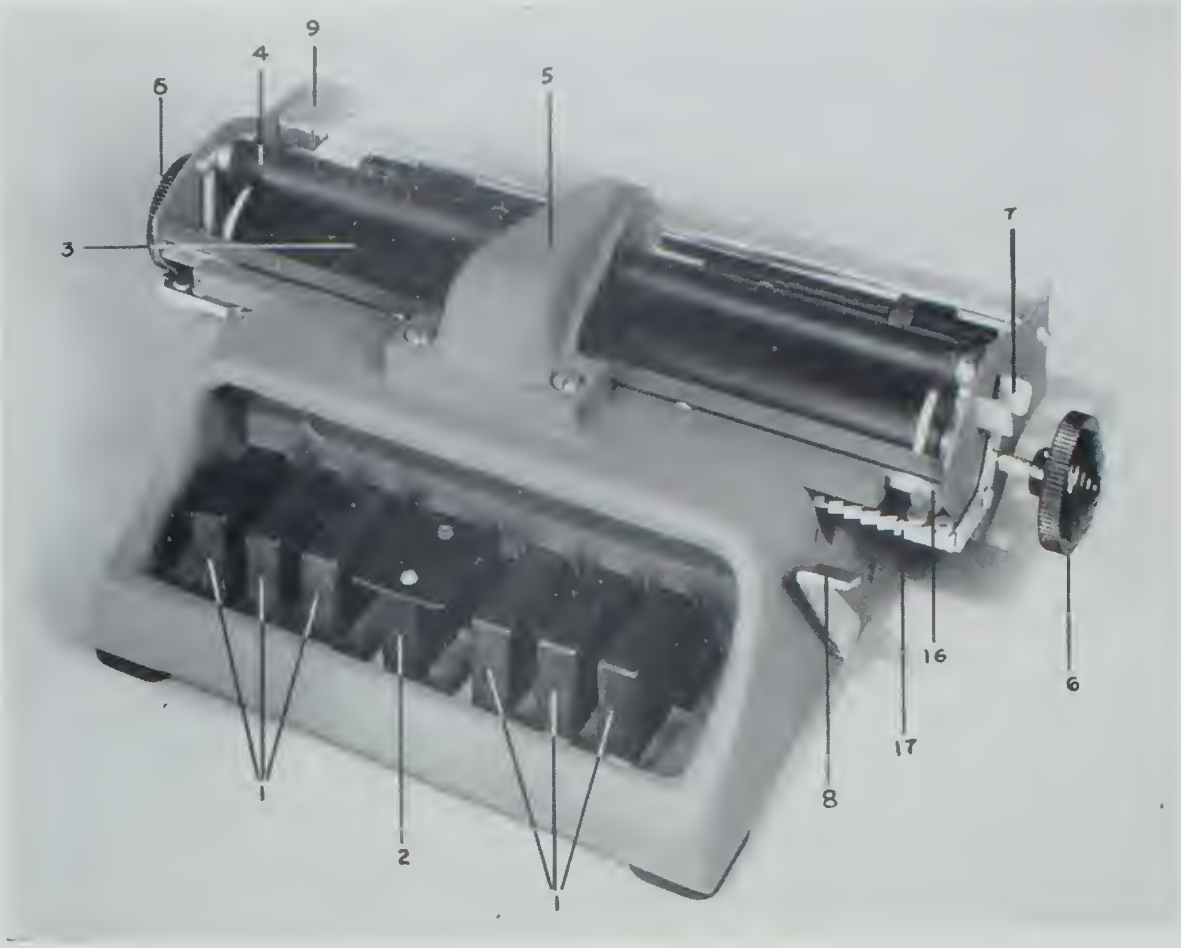
The New Hall Braillewriter

Manufactured by

The American Printing House For The Blind

1839 Frankfort Avenue

Louisville 6, Kentucky



1. Keys
2. Space bar
3. Main wooden roller
4. Rubber traction roller
5. Gooseneck
6. Roller knobs
7. Carriage release
8. Backspacer
9. Margin stop
16. Carriage track
17. Ratchet bar

DESCRIPTION

The APH Model New Hall Braillewriter is a medium-weight, relatively inexpensive machine which produces standard size Braille. Developed originally for use by the children and teachers in the schools and classes for the blind, the machine is easy to operate and quite rugged in construction. It has been equipped with a minimum of accessory parts in order to make it as simple to operate and trouble-free as possible.

Only the long-carriage model is at present being manufactured. This model will accommodate a 11½ width page and will write 41 cells to the line.

The writer is mounted in an attractive imitation-leather carrying case, and the price of the case is included in the price list below:

Long-carriage Model New Hall Braillewriter —

$60.55 postpaid in U. S.
$65.60

This writer is designed to wrap the blank paper around a central wooden roller (No. 3), the paper being held by a full-length rubber traction roller (No. 4). The central roller is equipped with a turning knob (No. 6) at either side of the carriage for line spacing. The bottom end of the paper is fastened to the roller by a metal paper clip (No. 11) equipped with three pins to hold the paper in positive position. (In connection with this feature of the writer, it should be noted that the present model has been adapted so that it is now possible to write 25 Braille lines on a 11-inch length paper).

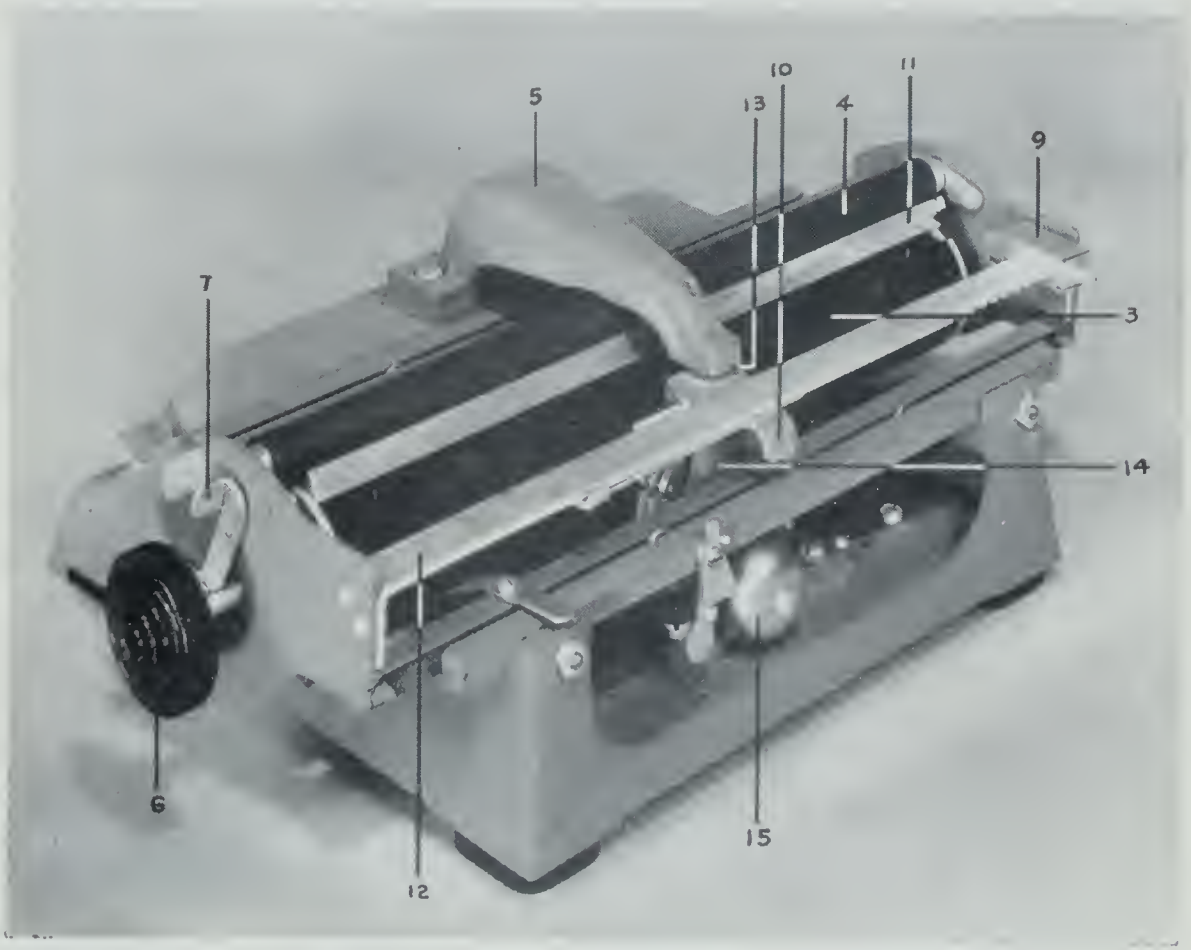
The carriage release (No. 7) is located on the right-hand side of the carriage and functions to free the carriage for manual cell setting.

The backspacer (No. 8) is at the lower right-hand side of the frame, and moves the carriage to the left one cell at a time with each full stroke of the lever. (It should be noted that the lever should be given a strong, quick stroke, rather than a slow, dragging motion, for best results).

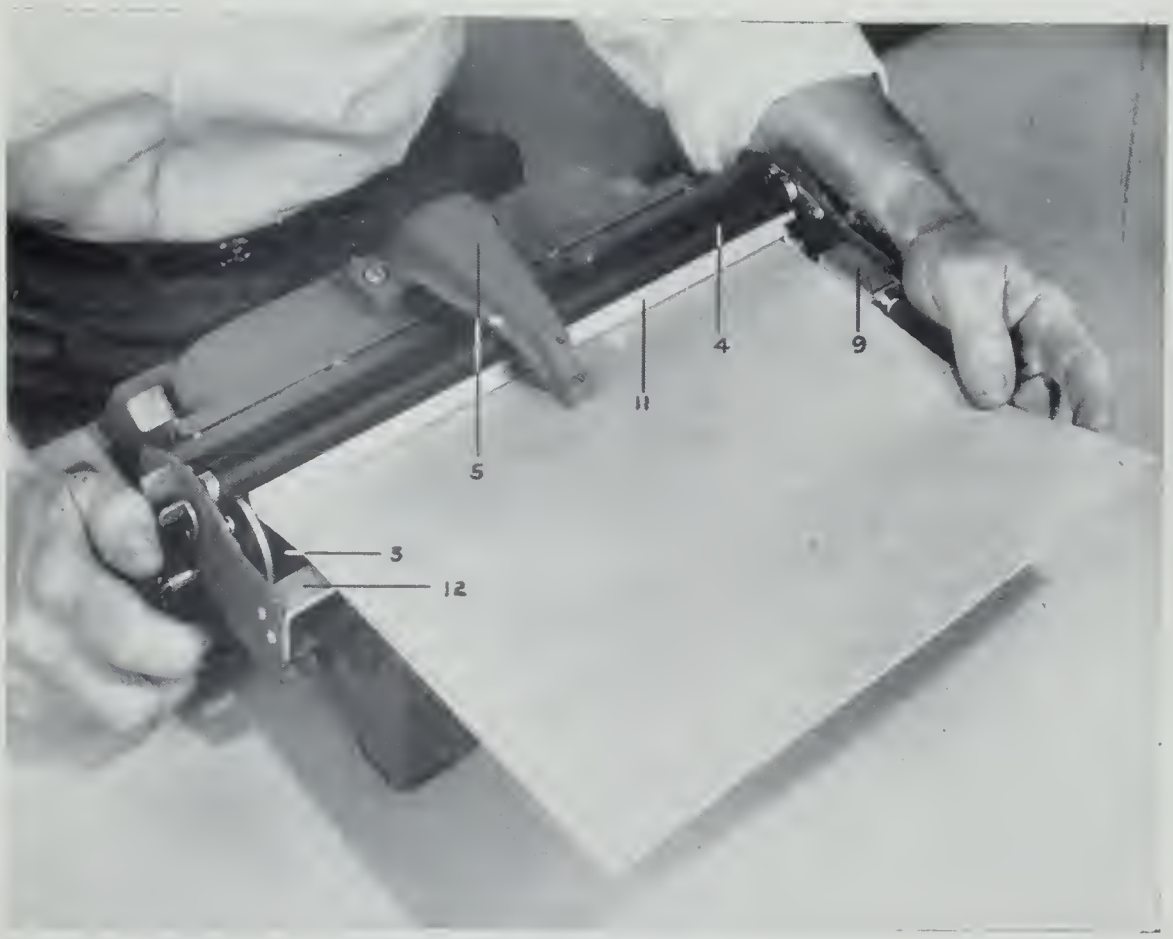
A margin stop (No. 9) is mounted at the left-hand end of the margin bar (No. 12) on the carriage, and is provided with 10 adjustments. The bell (No. 15) is set to ring at the 31st cell on the regular model and at the 33rd cell on the long-carriage machine.

The keyboard is the same as that for all Braillewriters, and includes six levers (one for each dot in the cell) and a space bar.

A carriage lock (No. 10) is located on the under side of the margin bar (No. 12) at the back of the machine, and is designed to disengage the escapement bar and at the same time lock the carriage securely to prevent damage in shipment or transport. To engage the carriage lock, the carriage should be moved to the approximate center of the frame by holding the carriage release lever forward. With the carriage in position, the carriage lock should be pushed inward until the two prongs encircle the top of the diebox (No. 14).



3. Main wooden roller
4. Rubber traction roller
5. Gooseneck
6. Roller knob
7. Carriage release
9. Margin stop
10. Carriage lock
11. Paper clip
12. Margin bar
13. Matrix (in gooseneck)
14. Die box
15. Bell



3. Main wooden roller
4. Rubber traction roller
5. Gooseneck
6. Roller knob (under right hand)
9. Margin stop
11. Paper clip (in vertical position)
12. Margin bar

OPERATING DIRECTIONS

To prepare the writer for work, turn the paper roller knobs (No. 6) in either direction until the metal paper clip (No. 11) lies just behind the rubber traction roll (No. 14). Open the paper clip vertically against the traction roll by inserting the finger in one of the recesses cut in the paper roller for this purpose. Slip the sheet of paper over the margin bar (No. 12), and between the matrix (No. 13) and the die box (No. 14), into the groove under the paper clip. (If the carriage is pulled fairly far to either the right or the left, it will simplify inserting the paper over the three pins on the roller, including the one in the middle). The paper should be squared at the left against the margin stop (No. 9), and at the bottom along the head of the

groove under the paper clip. Holding the paper in position with one hand, rotate the roller backward with the other (See picture), thus snapping the paper clip closed and locking the paper on the three pins which project through the paper clip.

Wind the paper on the roller, until the top of the sheet is in the desired writing position. As you write, the paper should be rolled out line by line by turning the knobs at the sides of the carriage.

No more can be written on the paper when it has been rolled out until the metal paper clip can again be seen behind the rubber traction roll. To remove paper, the paper clip should be raised and the paper lifted off the registry pins. If this is done carefully, the paper may be inserted for making corrections or changes by reregistering the pins in the original perforations.

To write, depress the proper combination of keys to form the Braille characters. Note that the keys correspond to the numbers of the dots of the Braille cell, Dots 1, 2, and 3 being located to the left of the space bar reading outward from the center, and Dots 4, 5, and 6 reading outward to the right of the space bar.

The machine should be kept covered in the carrying case at all times when not in use. The cover of the case is attached to the bottom with "take-apart" hinges which permit the operation of the writer without removal of the machine from the bottom of the case. By leaving the machine attached to the bottom of the case at all times, the writer can be used on the lap or other uneven surface.

The machine should be handled with reasonable care to avoid damage. Particular pains should be taken to avoid knocking it off the table, and the like, and if the cover is kept locked in place when the machine is not in use, it will help to protect the writer from much damage. In the event the machine stands idle for an extended period, or becomes dusty, the moving parts should be cleaned and relubricated with a light machine oil. If machine is used with fair regularity it should be oiled about every two weeks with a drop or two in the groove of the carriage track (No. 16), and on the escapement which is the mechanism which gives the machine its forward motion cell by cell by en-

gaging and disengaging with the teeth of the ratchet bar (No. 17). Very occasionally the pivot bars which activate the punches in the die box should also be oiled. Always use a very light machine oil, such as 3-in-1 or a sewing machine oil.

If the machine becomes damaged or broken, it is recommended that it be returned to the Printing House for repairs. In preparing the writer for shipment, be sure to do the following things:

1. Fasten the carriage lock at the back of the machine around the die box, and tie the carriage securely in place so that it will not move about in transit.
2. Securely tighten the knurled screws which fasten the writer to the bottom of the case.
3. Wad up heavy paper or newspapers and pack tightly around the machine inside the cover of the carrying case, putting padding particularly at either end of the carriage around the roller knobs and on top of the gooseneck, and fasten the lid of the case down tightly.
4. The writer in its case should then be packed in a strong corrugated carton (the original one, if possible) and firmly stuffed with excelsior or wadded-up newspapers on all sides before closing. If possible, wire strappings should be used to fasten the carton.

Note: Braillwriters being returned for repair may be shipped by parcel post at the rate of 1 cent per pound, plus insurance to the value of the machine, under a special postal regulation. The cost of shipment from anywhere in the United States should not exceed 55 cents including the insurance. To obtain this rate, affix a notice like the following above your stamps:

APPLIANCE FOR THE BLIND
BEING SENT FOR REPAIR,
ACT OF OCTOBER 14, 1941.

Ship to:

AMERICAN PRINTING HOUSE FOR THE BLIND
1839 Frankfort Avenue
Louisville 6, Kentucky

GORE READING STAND

(for partially visioned)

Manufactured by

The American Printing House For The Blind

1839 Frankfort Avenue

Louisville 6, Kentucky

This device is designed to aid partially visioned children or adults in placing their reading materials in the most convenient position to meet their individual needs. It consists of a four-jointed arm (which gives a wide variety of choices in position), a C clamp to fasten the device to a desk or table top, and a music rack to hold the book. The four joints of the arm are held in rigid position by means of butterfly bolts. Additionally, one of the extensions of the arm permits it being lengthened or shortened as needed, so that it can be fitted to the requirements of adults or children, either in a sitting or standing position.

The entire device is made of steel, the arms and clamp being enameled in gray with a baked crackle finish, and the bookrack is nickel plated. The over-all size of the bookrack itself is 16″ wide by 10-1/2″ high. The folding rack is removable from the arm and clamp, which themselves can be disassembled for easy storing. The arm can be extended to a full length of 12″, or closed to approximately 6-1/2″.

Price — $20.00, plus postage and insurance on 5 pounds.

Kine Mltply Vizr

("Are You Bright as a Bunny?")

Manufactured by

The American Printing House For The Blind

1839 Frankfort Avenue

Louisville 6, Kentucky

Designed as an incentive to learning the multiplication tables, squares and cubes through No. 12, the Kine Mltply Vizr consists of a thick cardboard, 11″x11″ square, on which has been mounted a bright red plastic wheel embossed with the numbers and fitted with fluted edges for manual turning and a gear mechanism to position the wheel for reading. Over the face of the wheel is a sheet of heavy paper with a V-shaped hole cut out at the top so that the Braille numbers can be read when the wheel has been turned to the proper position for the desired table.

On the top sheet of paper (over the wheel) the numbers from 1 to 12 are written on either side of the V-shaped hole between the ears of the bunny, the odd numbers being on the left-hand side and the even numbers on the right-hand side. To use the device, say to find the Table of 8's, the red wheel is turned until the No. 8 comes into position on the plastic wheel at the bottom left-hand corner of the V, with the multiplication sign (dots 1-6) at the bottom right-hand corner (see picture on front). To find the product of "8x9," find the No. 9 second from the top of the left-hand column on the top yellow sheet, and then read No. 72 immediately to its right on the red plastic wheel in the slot. Similarly to find the product of "8x12," find the No. 12 at the top of the right-hand column on the yellow facing sheet, and read No. 96 immediately to its left on the red plastic wheel in the slot.

(Note: All signs of operation and the square and cube signs are in Taylor Code.)

Price—$2.12, postpaid in the United States.

Credit for the original design of the Kine Mltply Vizr should be given to G. Gilbert Scott, of Los Angeles, California, who designed the device in ink-print for seeing children.

MOULDED PLASTIC 1-FOOT BRAILLE RULER

Manufactured by

The American Printing House For The Blind

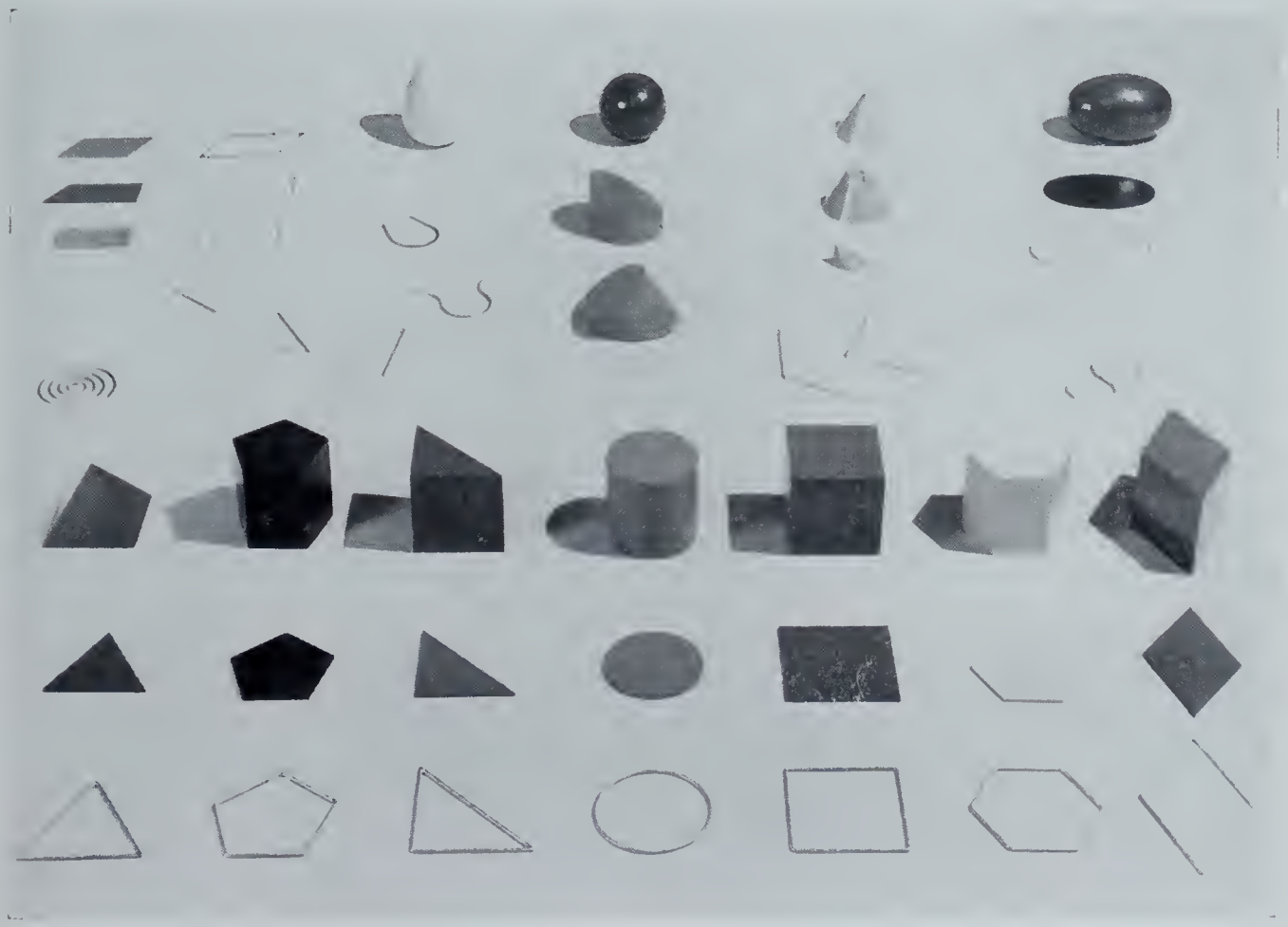
1839 Frankfort Avenue

Louisville 6, Kentucky

This 1-foot rule is moulded of black phenolic plastic. The ruler is 12″ x 1¼″ x ¼″. tapering down to ⅛″ thick at the reading edge. Raised lines lead back from the reading edge indicating eighths, fourths, halves and inches, with Braille figures at inch divisions.

Price — 50 cents each postpaid.

Mitchell Wire Forms
With
Matched Planes and Volumes



Manufactured by

The American Printing House For The Blind

1839 Frankfort Avenue

Louisville 6, Kentucky

Mitchell Wire Forms
With
Matched Planes and Volumes

The Mitchell Forms consist of a set of geometric figures illustrating outline forms, planes and volumes commonly found in geometric problems. Corresponding figures in all three forms have been built to the same scale (the cube is 3″ x 3″ x 3″), so that the wire frames will fit over the planes of the same shape as well as over the planes of the solids of the same shape, and the planes themselves are of the same shape and size as the same planes on corresponding solids. The volumes have been manufactured of hardwood brightly painted in various colors, and the planes made of wood composition painted in colors corresponding to those of their respective volumes. The wire outlines have been fabricated from ⅛″ cadmium-plated steel wire.

The entire set is priced at $35.47, postpaid in the United States and consists of the following items, as shown in the accompanying photograph:

15 solids (including 2 parts each for the truncated cylinder and the truncated cone)
11 planes (each ⅛″ thick)
24 wire frames.

These forms are sold in complete sets only.

Credit for the original design of the Mitchell Forms should be given to Mr. Paul C. Mitchell, Assistant Principal, New York Institute for the Education of the Blind, New York, New York.

Music Rack For Partially Visioned

Manufactured by

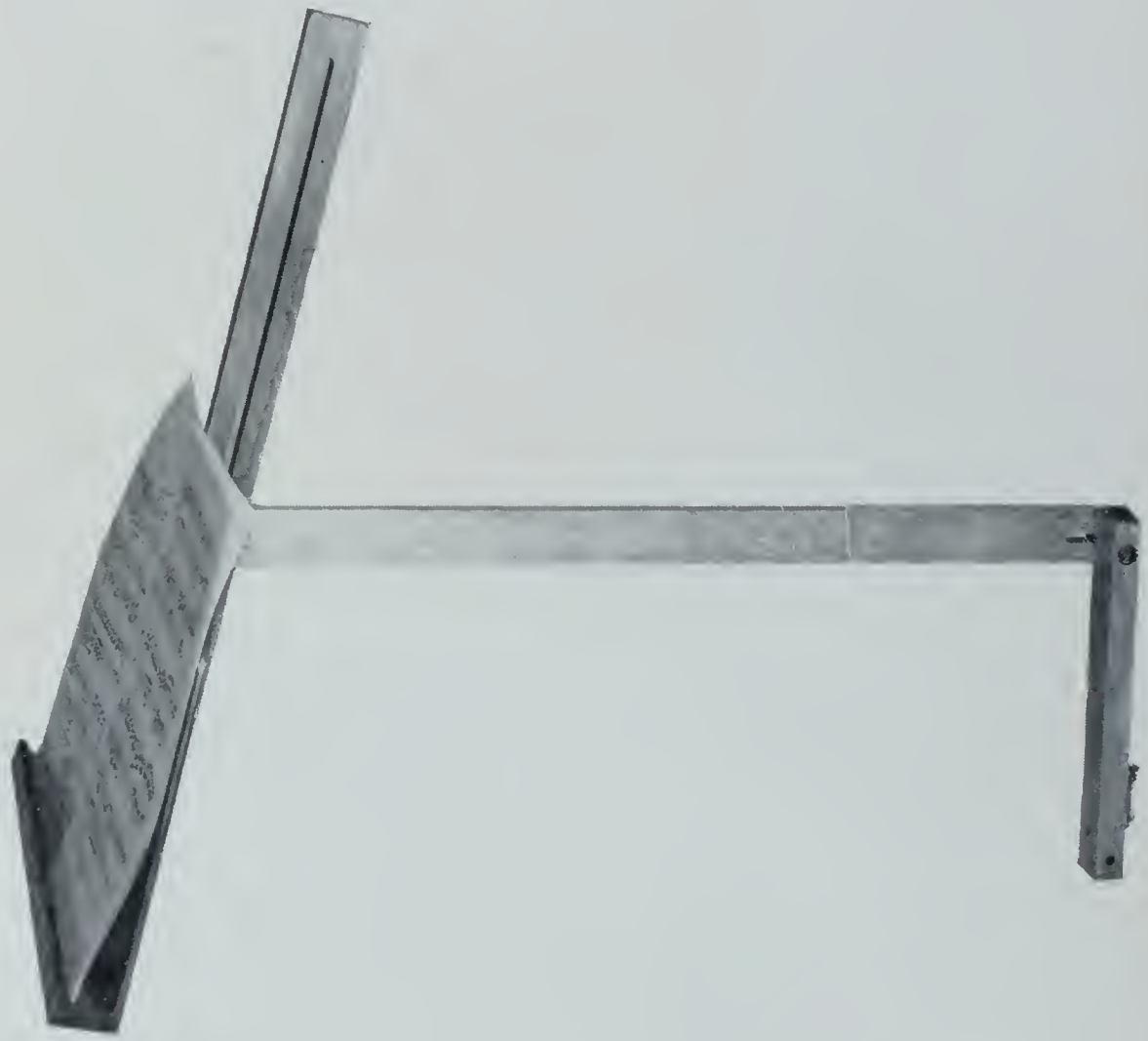
The American Printing House For The Blind

1839 Frankfort Avenue

Louisville 6, Kentucky

This device consists of a special wooden music rack, designed to fit any upright piano, for use by partially visioned pupils who can read ink-print music. The rack is so constructed that it is adjustable forward and backward, up and down, and for tilting to the proper angle, so that the ink-print music can be placed at the correct eye level and focal vision point of the player.

Price — $5.50 plus parcel post charges and insurance on 5 pounds from Louisville to destination.



Relief Globes and Plaques

Manufactured by

The American Printing House For The Blind

1839 Frankfort Avenue

Louisville 6, Kentucky

LARGE FLOOR PEDESTAL GLOBE AND PLAQUES

Globe— Of hollow plastic construction, 30″ in diameter and with an overall height of 51″, the globe is mounted on a sturdy metal base which provides for easy revolving on a correctly-angled axis. The base also provides for standing the globe on a vertical axis. Additional features include raised longitude and latitude lines (showing the Equator, Arctic and Antarctic Circles, and the Tropics of Cancer and Capricorn). The entire surface is lacquered in contrasting colors, blue for the water areas, and yellow for the land surfaces, plus a light brown tinting of the mountainous elevations for good contrast.

Price—$225.00, plus freight from Louisville to destination.

Note—Can be supplied to schools and classes for the blind only.

Plaque (Plastic)

Plaques— Desk-size plaques (thin plastic reproductions from the globe itself) of the seven major global areas are also available, including: North America, South America, Europe, Africa, Asia, Australia and the East Indies, and the North Arctic regions. These plaques are colored in blue, yellow and brown similar to the globe.

Price—$5.91 postpaid per plaque ($41.37 per set of 7).

Label Kit— A kit of 7 Braille labels, made of clear plastic backed with gummed tape for temporary pasting to either globe or plaques, are also available. The labels identify the ocean areas.

Price—51c per set, postpaid.

Note—Can be supplied to schools and classes for the blind only.

TABLE-MODEL GLOBES, 12″ IN DIAMETER

Two small, vacuum-formed relief globes, made of lightweight plastic, are also available as follows:

Panoramic Model Globe

Panoramic Model Globe— Of lightweight, hollow plastic construction, vacuum-formed, 12" in diameter, with separate aluminum cup-shaped base. This globe has full relief, plus raised longitude and latitude lines, with an indented line for the Equator. The globe comes painted in contrasting colors, blue for the water areas, and yellow for the land surfaces, plus a light brown tinting of the mountainous elevations. Elevations are exaggerated 32 to 1 in comparison with the horizontal distances.

Price—$11.50, postpaid.

Geo-Physical Model Globe— Of lightweight, hollow plastic construction, vacuum-formed, 12″ in diameter, with separate metal tripod base. This globe has full relief, plus raised longitude and latitude lines, with an indented line for the Equator. The globe comes painted in contrasting colors, blue for the water areas, and yellow for the land surfaces, plus a light brown tinting of the mountainous elevations. Elevations are exaggerated approximately 50 to 1 in comparison with the horizontal distances.

Price—$14.50, postpaid.

Geo—Physical Model Globe